COMPUTE!'S

MORE

MACHINE LANGUAGE

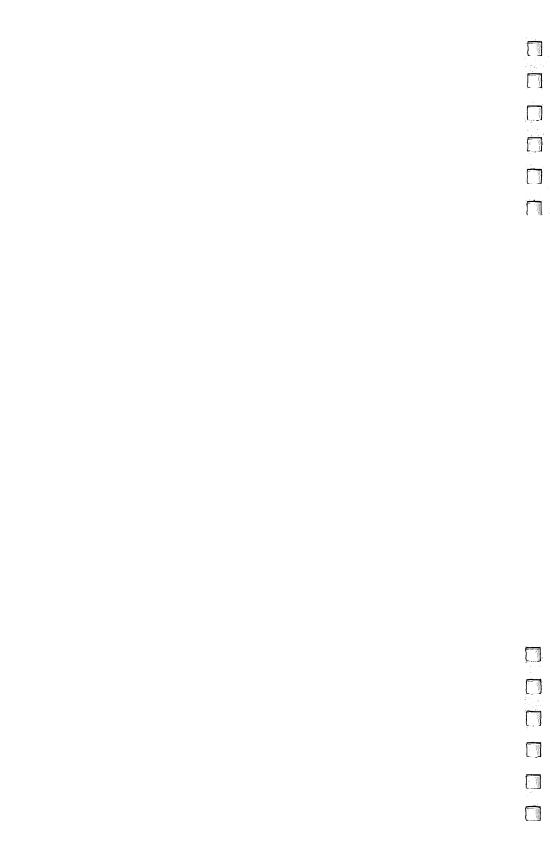
GAMES

FOR THE

COMMODORE



Seven fast-paced machine language arcade games for the Commodore 64 and 128 (in 64 mode). Battle in space, shoot targets, try karate, and much more. Complete source code for all games listed, plus an easy-to-use assembler for writing your own games.



COMPUTE!'s **MORE** Machine Lang Games for the **COMMODORE**

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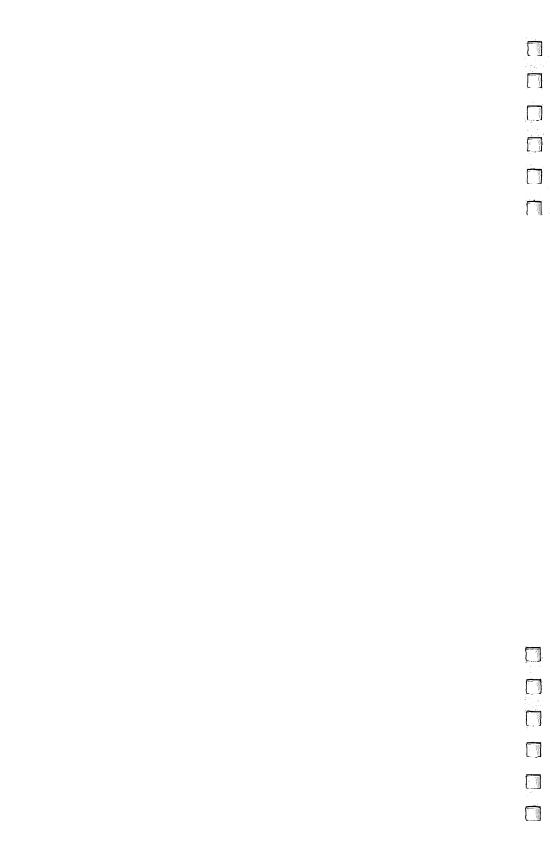
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Chapter 1 The Games



More Amazing Games

Gregg Keizer, Editor

For arcade-game speed on the Commodore 64, nothing beats machine language.

Machine language (ML) is the native "tongue" of any computer, and the 64 is no exception. The 1's and 0's (ons and offs) of machine language, though, are a bit more difficult to work with than the English-style syntax of a computer language like BASIC. To write an ML game, you have to know what you're doing.

The authors of these seven machine language games for the Commodore 64 (and 128 running in 64 mode) know their stuff. First (and most importantly), the games are fun to play. But what makes them stand out, what makes them so impressive, is their length. Since they all appeared originally in *COMPUTE!* magazine or *COMPUTE!* Gazette, they had to be short enough to publish—not so long that people took one look and refused to type them in. The longest game, "Eagles and Gators," is just over 5K long. That's considerably shorter than most commercial games.

Consider the length of these seven games and they're simply amazing.

Play Them All

You'll find a variety of games in COMPUTE!'s More Machine Language Games for the Commodore 64. Much like those found in the first such book (COMPUTE!'s Machine Language Games for the Commodore 64), the seven arcade games here are as challenging (and often as frantic) as we can make them. There are enough things going blip and zip to satisfy any gamester.

Space Arena puts two players in a futuristic arena where spaceships maneuver and fire while dodging sluggish asteroids. Shove your opponent into a hunk of slow-moving rock and iron to win. The victor decides the fate of the galaxy.

Saloon Shootout lets you blast mugs, plink at running

mice, gun down bad guys, and plug playing cards. You've got a gun in your hand, plenty of bullets, and only so much time in this entertaining arcade game for shootists of all ages.

Prisonball is a two-player hybrid—it combines the best elements from the classic computer arcade games, *Breakout* and *Pong*. Knock out as many bricks as possible—more than your opponent does, of course—before time runs out. In this game, fortunes turn as fast as your paddles.

Q-Bird makes you responsible for a defenseless baby bluebird who's the entree for a variety of hungry predators. Hop and jump on the grid to advance to the next level, but be sure there's not a mouth waiting for you when you land.

Bump-N-Run may make friends into enemies as you and an opponent catch, steal, and shoot a ball in this tumble-offun game of bumps and bashes.

Ringside Karate may not provide the black belt, but it has everything else you need to kick, jab, punch, and block your way to the title of World Karate Expert. A quick-reflex two-player game that tests your joystick control.

Eagles and Gators features a split screen, 16 sprites (amazing!), and clever animation. Two players turn a flock of eagles and a ton of turtles into clamping, shoving opponents in this unique game.

Easy Entry

If you had to use an assembler (see Chapter 3) to enter these games, you'd probably give up before you started. Fortunately, you can use our "MLX" machine language entry program instead. MLX is a program in its own right, one that checks your typing and lets you know—almost immediately—that you've made a mistake. Typing in machine language programs with MLX guarantees that you'll have a working copy of the game the first time.

All seven games in COMPUTE!'s More Machine Language Games for the Commodore 64 are listed in MLX format. Refer to Chapter 2 for the MLX program, its instructions, and each game's MLX listing and individual directions.

From the Source

Source code is the original code of a program. In the case of machine language games like these seven, the source code was written with an assembler (in many cases, the *PAL* assembler was originally used). If you know how to read it (even if you

don't know how to write it), source code can be illuminating. It shows you exactly how the program was put together, what routines were used, and which tricky techniques were called into play.

Source code is hard to come by. Many programmers

won't show it to their best friends.

That makes this book even more unusual, because we've published the complete assembled source code for

each game.

If you do dive into machine language programming, then you'll want to be sure to turn to Chapter 3. You'll undoubtedly find programming methods that will make your own creations run faster, look better, and play easier.

Grab the Joystick

No matter what you use this book for—to simply play the seven games or pick apart the source code—COMPUTE!'s More Machine Language Games for the Commodore 64 will satisfy even the most experienced player or programmer. Some serious fun is waiting for you either way.

All the programs in this book are available in disk form. Each game's object code (what you run, and what you'd normally create by typing in the MLX listing in Chapter 2) and complete source code (in single-statement-line *PAL* format) is included on the disk. You can order this \$12.95 disk only through COMPUTE! Publications. Call toll-free 1-800-367-6767 (in NY 1-212-887-8525).

Space Arena

Bryan Files

This engaging two-player game, which could have been titled "Indirect Aggression" for its unique design, features superior graphics and playability. Two joysticks required.

In a distant galaxy, a fierce war between two great empires has reached a stalemate. The cost to both civilizations has been high with no gain to either side. The stalemate has forced the two sides to agree to settle the dispute in a controlled environment—a space arena.

Enclosed in this arena are four asteroids and a ship representing each side. Both ships are equipped with photon blasters, which have the ability to push objects without damaging them. A ship is destroyed only by a collision with an asteroid.

Let the Game Begin

To load "Space Arena," type

LOAD "filename",8,1 (for disk) LOAD "filename",1,1 (for tape)

where *filename* is the name you used to save the program. Press RETURN; then type

SYS 49152

and press RETURN again.

You'll need two joysticks (and two players) to play Space Arena. Plug a joystick into each of the 64's two ports.

Rotate and Fire

Movement in Space Arena is much like that in the classic arcade game *Asteroids:* Rotate your ship by moving the joystick left or right. Push the joystick forward to activate the ship's thrusters, and press the fire button to release a photon blast. You have no braking thrusters—to slow down, you must turn the ship around and thrust in the direction in which you're moving.

Game options include speed (1–3, where 1 is the slowest and 3 the fastest) and time limit (1–5 minutes).

Points and Strategy

Victory conditions are simple—score more points than your opponent in the time allowed. You get one point each time you hit the other ship with a photon blast. If the enemy's ship is destroyed by running into an asteroid, you receive 20 points.

There are two basic strategies to playing Space Arena. You can try to push your opponent into an asteroid, or push the asteroids into your opponent. The effect of photon blasts on asteroids is much less than on ships because the asteroids are heavier. A single photon blast can send a ship flying across the screen, especially if the ship has to turn around before being able to slow down.

Typing

Refer to Chapter 2, page 37, for typing instructions for Space Arena and its MLX listing.

Source Code

The source code for Space Arena is in Chapter 3, beginning on page 137.

Saloon Shootout

David Hensley, Jr. and Kevin Mykytyn

You'll have your hands full in this action-packed, arcade-style game. It's one of the most challenging and graphically charming games we've published. A joystick is required.

If you're a sure-shot, dead-eye, trigger-happy gunslinger, you'll be well suited to this wild and woolly action game. In "Saloon Shootout," the pace is frantic and it never slows up. The object of the game is to accumulate the highest number of points before time runs out or before you run out of bullets.

Start Shooting

To play Saloon Shootout, load the game by typing

LOAD "filename", 8,1 (for disk) LOAD "filename", 1,1 (for disk)

Press RETURN. Now enter

SYS 10240

and press RETURN again.

Plug the joystick into port 2 and you're ready to play.

Of Mice and Mugs

There's a lot to contend with in Saloon Shootout. A gun, which appears on the bar, is your weapon. It's controlled by your joystick. By moving the joystick up and down, you control the distance your bullet travels. You'll notice the gun barrel shift up and down as you move the joystick. The arrow on the right of the screen will help you gauge the distance your shot will fire.

A main objective of the game is to shoot as many mugs as you can before they fall off the bar. For every ten mugs you shoot, a running mouse appears. Each time you shoot this critter, you receive a bonus score, and the mouse reverses direction and speeds up. Every time you hit it, the point total escalates, and so does the mouse's speed. (This is where you can get a lot of points for those potential high scores.)

This may sound pretty easy so far, but your job at the saloon is much more complicated. You must also keep your eye on the three windows on the back wall of the saloon. They're sometimes opened by a masked desperado who will steal ten of your bullets unless you shoot him before he disappears. But don't be too hasty: Sometimes good guys appear (the good guys smile), and shooting them results in a stiff penalty—100 points subtracted from your score.

If your supply of bullets is running low, you can replenish them by shooting the cards that appear on top of the player piano. However, you must shoot the cards in order: 10, J, Q, K, and A. Be careful here—one card hit out of order will reshuffle the deck and you'll have to start over. Not so simple, is it?

There are a few features that help to calm your nerves, however. If you reach a score of 500, you receive a bonus time of 50 seconds. To help you keep track of the time remaining, the screen flashes when there are 25 seconds left. As noted above, the arrow on the right side of the screen helps make sure that those valuable bullets you're shooting aren't wasted. And finally, the player piano cranks out ragtime tunes to help relieve the tension. To change the tune, shoot one of the white keys on the player piano. To turn the music off, shoot a white key twice.

Statistics and Point Totals			
Time	2 minut	es	
Bullets	35		
Scoring			
Mugs	10		
Missed mugs	-5		
Cards	10		
Back of card	-10		
Good guy	-100		
Bad guy	25		
Mouse	20,40,60,80,100		

Shootist Strategy

When the game first runs, you have a few seconds before the mugs start to appear. It's wise to use this time to shoot a few of the cards (in order, of course) in case your bullets run low

during the game. Try to make the mouse appear as many times as possible to receive higher scores. When it appears, try to shoot it as many times as possible. Unless your bullet count is high, it's a good idea to set your sights on the windows as they start to open. And remember to keep an eye on your bullet supply and the time remaining.

Typing

You'll find typing instructions for Saloon Shootout and its MLX listing in Chapter 2, page 48.

Source Code

Saloon Shootout's source code can be found in Chapter 3, page 148.

Prisonball

John Scarborough Commodore 64 Version by Kevin Mykytyn

Nearly everyone has played Pong or Breakout, two computer-game classics. "Prisonball" creates an intense, two-player action game by drawing features from both of those games. Requires either a pair of paddles or two joysticks.

"Prisonball" is a two-player action game that combines the best elements from two classic computer games, *Pong* and *Breakout*. The object of the game is simple—knock out as many bricks as you can in the allotted time.

Start Your Paddles

Either joysticks or paddles can be used to play Prisonball. (To play with paddles, plug a pair of paddles into port 2.) Even though the program is written in machine language, load and run it as you would an ordinary BASIC program, by typing

LOAD "filename",8 (for disk) LOAD "filename",1 (for tape)

and pressing RETURN. Type

RUN

and press RETURN again.

Break to the Center

The game begins by displaying five colored walls running vertically down the center of the screen. Each player controls two paddles located at the left and right sides of the screen. Three balls appear at a random location and start bouncing around the screen. When a ball is on your side of the screen, move one of your paddles into its path to deflect the ball toward the walls. You can only hit a ball when it's moving toward your paddles (away from the interior walls). Balls traveling from the opposite direction go right through your paddles. If you happen to miss a ball, it wraps around the screen and appears on

the other side, giving your opponent a chance to score.

At the beginning of the game, all three balls are a neutral color. Each time you hit a ball, it changes to the color of your paddle. You score whenever a ball of your color hits one of the five interior walls. The score depends on which wall you hit. The center wall is the hardest to reach, so it yields the most points. The two intermediate walls are worth less than the center wall. The outermost walls are easiest to hit and score the fewest points.

Time and Points

The top of the screen displays each player's score and a count-down timer. Each game lasts three minutes. When the timer runs to zero, the game ends and the player with the most points wins. The screen border flashes briefly as a warning when only 20 seconds remain on the timer.

Bricks from the center wall are worth 30 points, those from the two adjacent walls are worth 20, and the outermost bricks each score 10 points.

Every time a ball hits one of the walls, a brick is knocked out of the wall at the point of impact. By aiming your shots carefully, you can bore a path through a wall and move a ball into the interior space between two walls. When this happens, the ball bounces wildly back and forth between the walls, scoring many points in a short time.

An additional bit of strategy has to do with the redrawing of walls. Whenever a wall has been destroyed, it is immediately redrawn. Some of the highest scores result when you trap one or more balls behind a wall when it is redrawn. Since the wall is new, the trapped balls may hit it many times before they break back out to the exterior.

Typing

Look to Chapter 2, page 61, for typing instructions and the MLX listing for Prisonball.

Source Code

Prisonball's source code can be found in Chapter 3, beginning on page 162.

Q-Bird

Mike Sedore

This delightful and colorful arcade-style game challenges your character—a defenseless (but nimble) baby bluebird—to survive among a crew of nasty, hungry enemies. A joystick is required.

Other birds say you're paranoid, but you're not—everyone really is out to get you. You often ask yourself how long a defenseless baby bluebird can hope to survive when a host of voracious predators are looking for a meal. If only you could leave this place to find a new home. But alas—you're too young to fly. The best you can manage is a flapping long jump. But you'd better be careful not to jump too far: You could fall a long way down.

Ready to Jump

Although "Q-Bird" is written in machine language, it can be loaded and run like a BASIC program. To play, type

LOAD "filename",8 (for disk) LOAD "filename",1 (for tape)

where filename is the name you gave the program. Press RETURN; then type

RUN

pressing RETURN once more. Plug the joystick into port 2.

Playing on the Grid

Q-Bird is played on a 6×7 grid. There are 15 levels of play from which to choose. As you play, you advance level by level by completing grids. A grid is complete when the color of each square matches the goal color shown at the bottom of the screen. To change the color of a square, simply hop on it. You have to jump on each square once in level 1, twice in level 2, and so on, up to level 15. A bonus life is awarded each time you complete a level. If you reach level 15, you

should feel satisfied. It doesn't get any harder than this. But don't relax; it doesn't get any easier either.

You start with five lives. Choose your starting level by pushing forward on the joystick. If you pass the level you want to play, pull back on the stick to reverse the level counter. Press the fire button to begin play.

To hop, simply move the joystick in the direction you want to follow. For a super jump, push the fire button as you hop—you'll leap over a square and land on the next. If you time it right, you can leap right over your enemies. But be careful not to jump over the side of the grid. That costs one life.

Press SHIFT-LOCK to pause the game. To restart a game, press RUN/STOP-RESTORE.

Leapin' Lizards

Three purple lizards live on the grid. They randomly leap off of their tails from square to square, landing on any bluebirds careless enough to get in their way. But they're the least of your worries. There's a king cobra that relentlessly chases you. He's got a hole in his stomach just the size of a baby bluebird. If he doesn't get you, then perhaps the low-flying and hungry hawk will. And while you're looking out for all of these villains, try to dodge the runaway balls that roll down the grid. Any one of them could turn you into a bluebird pancake in a moment.

Fortunately, you do have an ally. Occasionally, a flashing egg appears on a random square. If you hop on it, you momentarily stun all the grid inhabitants. You can now go anywhere you please without harm. Unfortunately, this doesn't last long. When the safe time is nearly through, the bluebird begins flashing. All action returns to normal after the third flash, so be ready for the frenzy to continue.

Typing

Chapter 2, page 67, has the typing instructions and MLX listing for Q-Bird.

Source Code

The source code for Q-Bird begins on page 169, Chapter 3.

Bump-N-Run

Tim J. Midkiff

Challenge a friend in this fast-paced, action/strategy game for two players. Rapid play and smooth movement are its hallmarks. Two joysticks are required.

This two-player action game can be played at two conceptual levels: When you first play, it seems to be purely an action game—all speed and reflexes—but after you and your opponent master the basics of the game, you'll discover the importance of strategy.

The object of "Bump-N-Run" is to get the ball and shoot it into the other player's goal. Of course, your opponent is trying to do the same.

Begin to Bump

To load the game, type

LOAD "BUMP-N-RUN",8,1 (for disk) LOAD "BUMP-N-RUN",1,1 (for tape)

and press RETURN (substitute the correct filename for BUMP-N-RUN if you saved it to tape or disk with a different name).

Now type

SYS 49152

and press RETURN to begin play. Be sure you have two joysticks plugged in.

Press RESTORE to exit the game, and enter **SYS 49152** again to replay.

Bumping and Running

As with many computer games, the best way to learn Bump-

N-Run is by playing it.

The game begins with the ball in the middle of the court and each player guarding his or her own goal. The joystick in port 1 controls the purple player. The yellow player is controlled by the joystick in port 2. Catch the ball by touching it

with your player. Your opponent can then steal the ball by bumping into you. The speed of your player and the direction in which the player travels are controlled by the joystick. When you first push the joystick, you move slowly; keep pushing and you'll accelerate. Press the fire button to shoot the ball. When the ball is released, you lose your speed, but the ball continues on with your previous speed and direction. Make sure your shot is accurate, because once you shoot the ball you can't catch it again until it bounces off a wall. Remember that you can steal the ball at any time simply by bumping your opponent. The first player to score 15 goals wins, and the game is reset when both players press the fire button.

Here are a few more details concerning the physics of the game. When players collide, their velocities and directions are exchanged. Collisions with the walls cause players to bounce back. A player may go beyond the walls only if he or she is

pushed by another player.

Typing

Refer to Chapter 2, page 79, for Bump-N-Run's typing instructions and MLX listing.

Source Code

Bump-N-Run's source code starts on page 182, Chapter 3.

Ringside Karate

Anthony Bertram

Go head to head with another player for the coveted black belt in this outstanding commercial-quality, arcade-style game. Two joysticks are required.

As in real karate, skill, speed, and timing are the necessary ingredients to play "Ringside Karate." You've got an impressive arsenal of kicks, punches, and defensive blocks at your disposal—but then, so does your opponent.

Kick Away

The game is long, but much of the sprite and screen DATA are repeated numbers, which makes the typing a little easier.

To load Ringside Karate, type

LOAD "filename",8,1 (for disk) LOAD"filename",1,1 (for tape)

and press RETURN. (Filename is the name you used to save the program.)

To start the game, type

SYS 15490

and press RETURN again.

The joystick plugged into port 1 controls the fighter dressed in white, while the joystick in port 2 controls the fighter in black.

Hee-Aee!

Each player controls one fighter with a joystick. Moving the joystick and/or pressing the button in various combinations delivers different kicks, punches, and defensive blocks.

It may take some practice to come up with the right offensive move. Keep at it.

To block, just press the fire button while the joystick is pushed in any other direction than the ones outlined in the il-

Left player Right Player Kick Forward Footsweep Footsweep Runch

Solid arrows indicate that the joystick button should be pressed.

lustration. To win, you must score ten knockdowns, each worth 100 points.

Timing is crucial because the fire button must be released for a moment before you can make another attack. If you rapidly press the button, the fighter won't move and probably will be knocked down. Blocking provides a limited defense and is best used just before a counterattack or when backing up. You'll find the controls much easier to master if you've played an arcade karate game.

When the game is over, a winner is declared, and another game may be started by pressing any key.

Typing

Typing instructions and the MLX listing for Ringside Karate can be found in Chapter 2, page 84.

Source Code

Ringside Karate's source code starts on page 188, Chapter 3.

Eagles and Gators

Philip I. Nelson

Featuring 16 sprites on a split screen, great sound effects, and realistic animation, this all machine language, two-player action game pits creature against creature as each tries to shove the other into oblivion. Requires at least one joystick.

"Eagles and Gators," an intense two-player action game, displays 16 moving sprites at all times—double the normal limit—and includes highly realistic animation, too.

Ready to Swim and Fly

To play, plug two joysticks into the joystick ports. (See the instructions below for playing with only one joystick.) Although the program is written in machine language, you load and run it just as you would a BASIC program, with

LOAD "filename",8 (for disk) LOAD "filename",1 (for tape)

followed by RUN.

Eagles and Gators begins with an animated title screen which asks whether you want to read the game instructions. Press Y to view the instruction screen or N to skip it. Next, you're shown the game screen and are prompted to choose one of the nine skill levels. If you've never played the game before, you'll probably want to press 1 to choose the easiest level.

Flyers Against Swimmers

When play begins, the screen is split into upper and lower color zones—sky-blue for the eight high-flying eagles and murky black for the eight gators swimming below. Each player controls a group of eight sprites. The game is written to be

played with two joysticks, but you can substitute keypresses to control the gators, normally controlled by joystick 1. Press the CTRL key to move left or the 2 key to move right. The space bar serves as a fire button.

Your sprites are in constant, realistic motion, flying or swimming up and down in their zones, rebounding when they hit the border between the two worlds. The flashing colored sprite in your group is the one controlled by your joystick. To switch control to a different sprite, push the joystick left or right.

The goal of the game is to expand your zone and shove your opponents off the screen. This is done by convincing your creatures to push against the sky/water border. Press the fire button just as your flashing eagle or gator bumps the border, and it "clamps" on and starts to shove. Whenever you clamp successfully, your opponent's screen flashes red, and all your creatures thrash momentarily with excitement.

Your zone expands whenever you have more sprites pushing than your opponent does. The game ends when one side or the other takes over the entire screen. That sounds simple, but it takes precise timing to clamp just one sprite. If you press the fire button at the wrong time, your sprite moves away from the border, regardless of its initial direction. If you press the fire button when your flashing sprite's already stuck to the border, it bounces back to the farthest end of your zone.

Your opponent can also unclamp one of your creatures by clamping one of his or her own creatures directly across the border from yours. The ability to unclamp an opponent's creatures at any time adds an extra element of strategy and makes it possible to turn the tables on your opponent even when defeat seems almost certain. The game is designed to reward concentration and careful play, and to discourage wild tactics such as holding the fire button down constantly. At best, you'll prevent your creatures from approaching the border. At worst, you'll inadvertently unclamp those from your side who are already pushing.

When you win a game, the screen clears to your color, and a joyful, double-sized sprite from the winning side performs a victory dance across the screen. At this point you can pick a new skill level for the next round or quit by pressing the Q key. After you've exited, the game can be restarted by typing **SYS 16384** and pressing RETURN. To stop in midplay, press RUN/STOP-RESTORE.

Displaying 16 Sprites

Space doesn't permit a detailed explanation of every routine in this program, but you may be curious about how to display more than eight sprites at a time, something often mentioned, but rarely seen. To understand how it's done, you'll need to know a little about raster displays.

Your TV or monitor makes a picture by scanning its screen with a moving electron beam called a *raster*. This is done line by line, from top to bottom, 60 times a second. The visible portion of a TV picture is made up of 200 raster lines, numbered from 50 at the top through 249 at the bottom. The same numbering scheme is used for locating sprites vertically on the screen, so raster line 100, for example, matches up with sprite vertical location 100. This correspondence between raster lines and sprite positions greatly simplifies the task of creating more than the usual number of sprites.

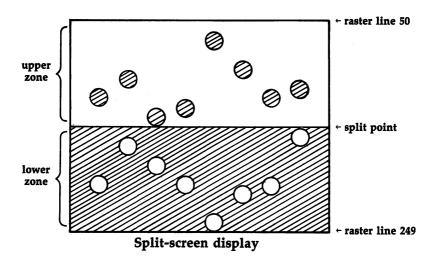
The Commodore 64 keeps track of the raster's vertical location in a special memory location (register) at 53266 (\$D012). BASIC is too slow to make much use of it, but machine language (ML) is fast enough to let us check this register repeatedly and monitor the position of the raster beam as it scans down the screen. This information is used to create a split screen as well as to double the usual number of sprites.

Split Screens

To make the two-color split screen, we first establish an arbitrary "split" point somewhere near the midpoint of the screen (say, at line 100), then repeatedly compare the raster's location to that value. When the raster value is less, we know it's above the split, so we color the screen cyan to create the sky zone. When the raster value is greater, that means it has dipped below the split point, so we color the screen black for the water zone. Remember, moving downward on the screen increases the raster (or sprite) vertical location value. By changing the border color along with the screen background color, we can make the split extend the full width of the screen for heightened realism.

The same sort of monitoring makes it possible to display 16 sprites. When the raster's above the split, we display all of the 64's 8 sprites at vertical locations in the upper color zone. When it drops below the split, we display the same 8 sprites at locations in the lower zone. The two sets of sprites are never actually displayed at the same time. The program just

changes their locations so fast that your eye sees 16 solid figures, without a trace of flicker.



Shadow Registers

If you stopped at this point, you'd have two identical groups of eight sprites—upper and lower—sitting motionless on a split screen. Nice, but boring.

To exploit the effect in a game, we want the two sprite groups to look different and move independently. Unfortunately, the Commodore 64 still has only eight sets of sprite control registers for handling the sprites' shapes, colors, and so on. Remember, we're just flipping the same group of eight sprites back and forth at very high speed between different vertical locations. Thus, top sprite 1 doesn't just look the same as bottom sprite 1—it is the same sprite.

The minute you change the shape or color of any sprite in the upper group, its lower twin immediately follows suit, and vice versa.

What we really need is 16 sets of sprite control registers. Commodore didn't design 16 sprites for the 64, but you can achieve much the same effect through software. Here's an outline of how it's done in this program.

First, we set aside some free memory to use as "shadow" registers in place of the actual sprite control registers. Since none of the eagle or gator sprites move horizontally, we don't need to duplicate the 8 horizontal position registers. However,

every sprite must be able to move freely up or down and change its shape and color at any time. Thus, for each group of 8 sprites we need 8 registers for vertical position, 8 for color, and 8 more to hold shape data pointers. Three sets of 8 make 24. Double that for the second set of 8 sprites, and you now have 48 shadow registers.

To make each sprite appear in the correct spot, we must transfer the contents of each shadow register into the corresponding control register at precisely the right instant. When the raster beam is in the upper portion of the screen, we'll take data from the eagles' set of shadow registers and store it in the actual sprite control registers. When the raster creeps down below the split, we'll fetch gator data instead and plug that into the control registers.

Of course, it's not necessary to do this on a two-color split screen. This particular program changes screen colors at the split point to accentuate the division between sides. But in another application, you might prefer to leave out the color-changing code. The split location is just an invisible reference point that tells you when it's time to flip the sprites from one zone into the other.

Coasting on the Interrupt

Expressed in this simple, schematic form, the job of displaying 16 sprites sounds quite simple. When the raster beam is above the midpoint, make the sprites appear in the upper area. When it's below the split, move them down into the lower area and give them new shapes and colors. The process is uncomplicated in theory. But don't bother trying to do this in BASIC, which is many times too slow to read the raster's position accurately. This program uses an interrupt-driven routine to manage the 16-sprite effect. Although interrupt handling goes beyond the scope of this article, the technique essentially wedges our custom sprite display routines into the computer's operating system along with its normal hardware-servicing routines, which do background tasks such as scanning the computer's keyboard. Conveniently, the interrupt-driven routine is executed 60 times per second, exactly the same frequency at which the screen is redrawn. As a result, the sprite display and color split are quite stable.

The advantage of driving an ML routine on the hardware interrupt is that it becomes completely automatic. Sixty times every second, the computer executes your custom routine

along with its own housekeeping routines. An interrupt-driven routine seems to coast along all by itself, without slowing down other program events. In effect, we've enhanced the 64 by adding the ability to display 16 sprites, with the option of a two-color split screen. Because the custom routines operate in the background, the shadow sprite control registers seem to work exactly the way the actual control registers do. We can change the color, shape, or position of any of our 16 sprites by plugging different values into their shadow control registers. To move our border up or down, we just change the value for our split point, and everything else follows accordingly.

The price you pay for these new features is that the sprites can't leave their respective zones. If you try to move an eagle sprite down into the gator zone, the custom display routine automatically gives it a gator shape and color, and the sky is minus one eagle. The same thing happens in reverse if you move a gator into the upper zone. If you move any sprite so that it overlaps the border, you get a weird hybrid creature with an eagle-shaped upper body and a gator tail. It's easy to forget because the shapes look so real, but the 64 still has only 8 sprites built into hardware. Using similar techniques, it's possible to display as many as 64 sprites on the screen at once. All you need to do is divide the screen vertically into additional zones, add extra shadow registers, and modify the display routines to handle them. However, the same general rules apply. Each group of sprites is confined to its own vertical zone, and you may not have more than 8 sprites occupying the same screen raster line.

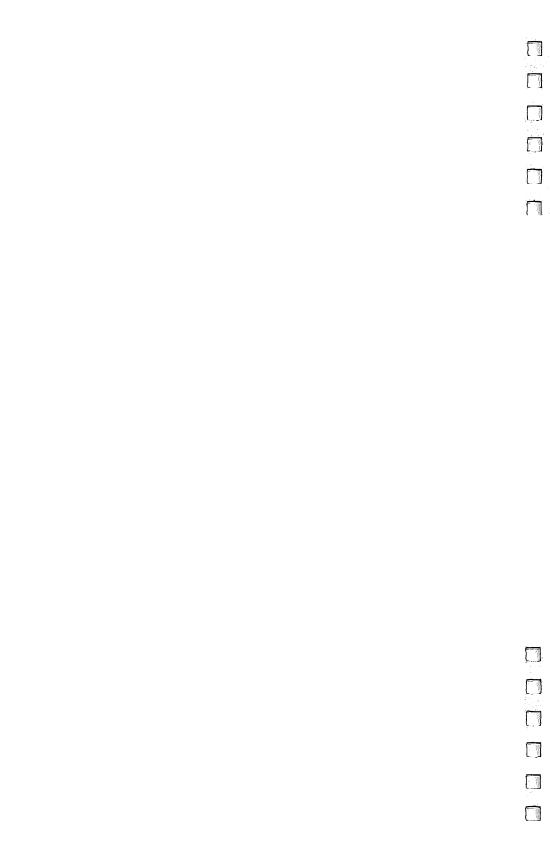
Typing

Refer to Chapter 2, page 99, for the typing instructions and MLX listing for Eagles and Gators.

Source Code

Eagles and Gators' source code can be found in Chapter 3, page 197.

Chapter 2 Type It In



MLX Machine Language Entry Program

Ottis R. Cowper

"MLX" is a labor-saving utility that allows almost fail-safe entry of machine language programs.

Type in and save at least two copies of "MLX" (you'll want to use it to enter future Commodore 64 machine language programs from COMPUTE! magazine, COMPUTE!'s Gazette, and COMPUTE! books). If you're using a Commodore 128, you can still use MLX—you must enter it and any ML programs in 64 mode, however.

When you're ready to enter an ML program, load and run MLX. It asks you for a starting address and an ending address. These addresses appear in the short article accompanying the MLX-format listing of each game. You'll find the listings in Chapter 2.

If you're unfamiliar with machine language, the addresses (and all other values you enter in MLX) may appear strange. Instead of the usual decimal numbers you're accustomed to, these numbers are in *hexadecimal*—a base 16 numbering system commonly used by ML programmers. Hexadecimal—*hex* for short—includes the numerals 0–9 and the letters A–F. But don't worry—even if you know nothing about ML or hex, you should have no trouble using MLX.

After you enter the starting and ending addresses, you'll be offered the option of clearing the workspace. Choose this option if you're starting to enter a new listing. If you're continuing a listing that's partially typed from a previous session, don't choose this option.

A functions menu appears. The first option in the menu is ENTER DATA. If you're just starting to type in a program, pick this. Press the E key, and type the first number in the first line of the program listing. If you've already typed in part of a program, type the line number where you left off typing

at the end of the previous session (be sure to load the partially completed program before you resume entry). In any case, make sure the address you enter corresponds to the address of a line in the listing you are entering. Otherwise, you'll be unable to enter the data correctly. If you press E by mistake, you can return to the command menu by pressing RETURN alone when asked for the address. (You can get back to the menu from most options by pressing RETURN with no other input.)

Entering a Listing

Once you're in Enter mode, MLX prints the address for each program line for you. You then type in all nine numbers on that line, beginning with the first two-digit number after the colon (:). Each line represents eight data bytes and a checksum. Although an MLX-format listing appears similar to the "hex dump" listings from a machine language monitor program, the extra checksum number on the end allows MLX to check your typing.

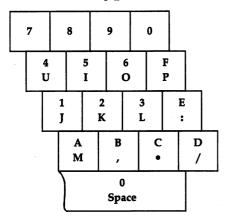
When you enter a line, MLX recalculates the checksum from the eight bytes and the address, and compares this value with the number from the ninth column. If the values match, you'll hear a bell tone, the data will be added to the workspace area, and the prompt for the next line of data will appear. But if MLX detects a typing error, you'll hear a low buzz and see an error message. The line will then be redisplayed for editing.

Invalid Characters Banned

Only a few keys are active while you're entering data, so you may have to unlearn some habits. You do not type spaces between the columns; MLX automatically inserts these for you. You do not press RETURN after typing the last number in a line; MLX automatically enters and checks the line after you've typed the last digit.

Only the numerals 0–9 and the letters A–F can be typed in. If you press any other key (with some exceptions noted below), you'll hear a warning buzz. To simplify typing, a keypad is available. The keypad—part of the keyboard—is active only while you're entering data. Addresses must be entered with the normal letter and number keys. The figure below shows the keypad configuration.

64 MLX Keypad



MLX checks for transposed characters. If you're supposed to type in A0 and enter 0A instead, MLX will catch your mistake. There is one error that can slip past MLX: Because of the checksum formula used, MLX won't notice if you accidentally type FF in place of 00, and vice versa. And there's a very slim chance that you could garble a line and still end up with a combination of characters that adds up to the proper checksum. However, these mistakes should not occur if you take reasonable care while entering data.

Editing Features

To correct typing mistakes before finishing a line, use the INST/DEL key to delete the character to the left of the cursor. (The cursor-left key also deletes.) If you really mess up a line, press CLR/HOME to restart the line. The RETURN key is also active, but only before any data is typed on a line. Pressing RETURN at this point returns you to the command menu. After you've typed a character of data, MLX disables RETURN until the cursor returns to the start of a line. Remember, you can press CLR/HOME to get to a line number prompt quickly.

More editing features are available when you're correcting lines in which MLX has detected an error. To make corrections in a line that MLX has redisplayed for editing, compare the line on the screen with the one printed in the listing; then move the cursor to the mistake and type the correct key. The cursor-left and -right keys provide the normal cursor controls. (The INST/DEL key now works as an alternative cursor-left

key.) You cannot move left beyond the first character in the line. If you try to move beyond the rightmost character, you'll reenter the line. During editing, RETURN is active; pressing it tells MLX to recheck the line. You can press the CLR/HOME key to clear the entire line if you want to start from scratch or if you want to get to a line number prompt to use RETURN to get back to the menu.

Display Data

The second menu choice, DISPLAY DATA, examines memory and shows the contents in the same format as that of the program listing (including the checksum). When you press D, MLX asks you for a starting address. Be sure that the starting address you give corresponds to a line number in the listing. Otherwise, the checksum display will be meaningless. MLX displays program lines until it reaches the end of the program, at which point the menu is redisplayed. You can pause the display by pressing the space bar. (MLX finishes printing the current line before halting.) Press the space bar again to restart the display. To break out of the display and get back to the menu before the ending address is reached, press RETURN.

Other Menu Options

Two more menu selections let you save programs and load them back into the computer. These are SAVE FILE and LOAD FILE; their operation is quite straightforward. When you press S or L, MLX asks you for the filename. You'll then be asked to press either D or T to select disk or tape.

You'll notice the disk drive starting and stopping several times during a load or save. Don't panic; this is normal behavior. MLX opens and reads from or writes to the file instead of using the usual LOAD and SAVE commands. Disk users should also note that the drive prefix 0: is automatically added to the filename (line 750), so it should *not* be included when you enter the name. This also precludes the use of @ for Save-with-Replace, so remember to give each version you save a different name.

Remember that MLX saves the entire workspace area from the starting address to the ending address, so the save or load may take longer than you might expect if you've entered only a small amount of data from a long listing. When saving a partially completed listing, be sure to note the address where you stopped typing so that you'll know where to resume entry when you reload.

MLX reports the standard disk or tape error messages if any problems are detected during the save or load. (Tape users should bear in mind that Commodore computers are never able to detect errors during a save to tape.) MLX also has three special load error messages: INCORRECT STARTING ADDRESS, which means the file you're trying to load does not have the starting address you specified when you ran MLX; LOAD ENDED AT address, which means the file you're trying to load ends before the ending address you specified when you started MLX; and TRUNCATED AT ENDING ADDRESS, which means the file you're trying to load extends beyond the ending address you specified when you started MLX. If you see one of these messages and feel certain that you've loaded the right file, exit and rerun MLX, being careful to enter the correct starting and ending addresses.

The QUIT menu option has the obvious effect—it stops MLX and enters BASIC. The RUN/STOP key is disabled, so the Q option lets you exit the program without turning off the computer. (Of course, RUN/STOP-RESTORE also gets you out.) You'll be asked for verification; press Y to exit to BASIC or any other key to return to the menu. After quitting, you can type RUN again and reenter MLX without losing your data, as long as you don't use the CLEAR WORKSPACE option.

The Finished Product

When you've finished typing all the data for an ML program and you've saved your work, you're ready to see the results. The instructions for loading and using the finished product vary from program to program. Some ML programs are designed to be loaded and run like BASIC programs, so all you need to type is LOAD "filename",8 for disk or LOAD "filename" for tape, and then RUN. Such programs will usually have a starting address of 0801. Other programs must be reloaded to specific addresses with a command such as LOAD "filename",8,1 for disk or LOAD "filename",1,1 for tape, then started with a SYS to a particular memory address. On the Commodore 64, the most common starting address for such programs is 49152, which corresponds to MLX address C000. In either case, refer to the general description for each game—you'll find these in Chapter 1.

An Ounce of Prevention

By the time you finish typing in the data for a long ML program, you may have several hours invested in the project. Don't take chances—read Appendix A, "How to Type In Programs," use our "Automatic Proofreader" to type in MLX, and then test your copy thoroughly before first using it to enter any significant amount of data. Make sure all the menu options work as they should. Enter fragments of the program starting at several different addresses; then use the DISPLAY option to verify that the data has been entered correctly. And be sure to test the SAVE and LOAD options several times to insure that you can recall your work from disk or tape. Don't let a simple typing error in the new MLX cost you several nights of hard work.

MLX

Read Appendix A before entering the program. For error-free entry, use "The Automatic Proofreader" (Appendix B) to type in this program.

- SS 10 REM VERSION 1.1: LINES 830,950 MODIFIED, LIN ES 485-487 ADDED
- EK 100 POKE 56,50:CLR:DIM IN\$,I,J,A,B,A\$,B\$,A(7),N
 \$
- DM 110 C4=48:C6=16:C7=7:Z2=2:Z4=254:Z5=255:Z6=256: Z7=127
- CJ 120 FA=PEEK(45)+Z6*PEEK(46):BS=PEEK(55)+Z6*PEEK (56):H\$="0123456789ABCDEF"
- SB 130 R\$=CHR\$(13):L\$="{LEFT}":S\$=" ":D\$=CHR\$(20): Z\$=CHR\$(0):T\$="{13 RIGHT}"
- CQ 140 SD=54272:FOR I=SD TO SD+23:POKE I,0:NEXT:PO KE SD+24,15:POKE 788,52
- FC 150 PRINT"{CLR}"CHR\$(142)CHR\$(8):POKE 53280,15: POKE 53281,15
- EJ 160 PRINT T\$" {RED}{RVS}{2 SPACES}E8 @3 {2 SPACES}"SPC(28)"{2 SPACES}{OFF}{BLU} MLX II {RED}{RVS}{2 SPACES}"SPC(28)" {12 SPACES}{BLU}"
- FR 170 PRINT" [3 DOWN] [3 SPACES] COMPUTE! 'S MACHINE {SPACE} LANGUAGE EDITOR [3 DOWN]"
- JB 180 PRINT"{BLK}STARTING ADDRESS[4]";:GOSUB300:S A=AD:GOSUB1040:IF F THEN180
- GF 190 PRINT"{BLK}{2 SPACES}ENDING ADDRESS[4]";:GO SUB300:EA=AD:GOSUB1030:IF F THEN190

- KR 200 INPUT"{3 DOWN}{BLK}CLEAR WORKSPACE [Y/N] 43
 "; A\$:IF LEFT\$(A\$,1)<>"Y"THEN220
- PG 210 PRINT"{2 DOWN}{BLU}WORKING...";:FORI=BS TO {SPACE}BS+EA-SA+7:POKE I,0:NEXT:PRINT"DONE"
- DR 220 PRINTTAB(10)"{2 DOWN}{BLK}{RVS} MLX COMMAND MENU {DOWN} [4]":PRINT T\$"{RVS}E{OFF}NTER D ATA"
- BD 230 PRINT T\$"{RVS}D{OFF}ISPLAY DATA":PRINT T\$"
 {RVS}L{OFF}OAD FILE"
- JS 240 PRINT T\$"{RVS}S{OFF}AVE FILE":PRINT T\$"
 {RVS}Q{OFF}UIT{2 DOWN}{BLK}"
- JH 25Ø GET A\$:IF A\$=N\$ THEN25Ø
- HK 260 A=0:FOR I=1 TO 5:IF A\$=MID\$("EDLSQ",I,1)THE N A=1:I=5
- FD 270 NEXT:ON A GOTO420,610,690,700,280:GOSUB1060:GOTO250
- EJ 280 PRINT"{RVS} QUIT ":INPUT"{DOWN} E4 ARE YOU S
 URE [Y/N]";A\$:IF LEFT\$(A\$,1)<>"Y"THEN220
- EM 290 POKE SD+24,0:END
- JX 300 IN\$=N\$:AD=0:INPUTIN\$:IFLEN(IN\$)<>4THENRETUR
- KF 31Ø B\$=IN\$:GOSUB32Ø:AD=A:B\$=MID\$(IN\$,3):GOSUB32
 Ø:AD=AD*256+A:RETURN
- PP 32Ø A=Ø:FOR J=1 TO 2:A\$=MID\$(B\$,J,1):B=ASC(A\$)-C4+(A\$>"@")*C7:A=A*C6+B
- JA 330 IF B<0 OR B>15 THEN AD=0:A=-1:J=2
- GX 340 NEXT: RETURN
- CH 350 B=INT(A/C6):PRINT MID\$(H\$,B+1,1);:B=A-B*C6: PRINT MID\$(H\$,B+1,1);:RETURN
- RR 360 A=INT(AD/Z6):GOSUB350:A=AD-A*Z6:GOSUB350:PR INT":";
- BE 370 CK=INT(AD/Z6):CK=AD-Z4*CK+Z5*(CK>Z7):GOTO39
- PX 38Ø CK=CK*Z2+Z5*(CK>Z7)+A
- JC 390 CK=CK+Z5*(CK>Z5):RETURN
- QS 400 PRINT"{DOWN}STARTING AT [4]";:GOSUB300:IF IN \$<>N\$ THEN GOSUB1030:IF F THEN400
- EX 410 RETURN
- HD 420 PRINT" (RVS) ENTER DATA ":GOSUB400:IF IN\$=N\$
 THEN220
- JK 43Ø OPEN3,3:PRINT
- SK 440 POKE198,0:GOSUB360:IF F THEN PRINT IN\$:PRIN T"{UP}{5 RIGHT}";
- GC 450 FOR I=0 TO 24 STEP 3:B\$=S\$:FOR J=1 TO 2:IF {SPACE}F THEN B\$=MID\$(IN\$,I+J,1)
- HA 460 PRINT" {RVS} "B\$L\$;:IF I<24THEN PRINT" {OFF}";
- HD 470 GET AS:IF AS=NS THEN470

```
FK 480 IF(A$>"/"ANDA$<":")OR(A$>"@"ANDA$<"G")THEN5
GS 485 A=-(A\$="M")-2*(A\$=",")-3*(A\$=".")-4*(A\$="/"
       )-5*(AS="J")-6*(AS="K")
FX 486 A=A-7*(A\$="L")-8*(A\$=":")-9*(A\$="U")-10*(A\$
       ="I")-11*(A$="O")-12*(A$="P")
CM 487 A=A-13*(A$=S$):IF A THEN A$=MID$("ABCD123E4
       56FØ",A,1):GOTO 54Ø
MP 490 IF A$=R$ AND((I=0)AND(J=1)OR F)THEN PRINT B
       $::J=2:NEXT:I=24:GOTO550
KC 500 IF A$="{HOME}" THEN PRINT B$:J=2:NEXT:I=24:
       NEXT: F=Ø:GOTO44Ø
MX 510 IF(A$="{RIGHT}")ANDF THENPRINT B$L$;:GOTO54
GK 520 IF A$<>L$ AND A$<>D$ OR((I=0)AND(J=1))THEN
       {SPACE}GOSUB1060:GOTO470
HG 530 A$=L$+S$+L$:PRINT B$L$;:J=2-J:IF J THEN PRI
       NT L$::I=I-3
QS 540 PRINT AS::NEXT J:PRINT SS:
PM 550 NEXT I:PRINT:PRINT"{UP}{5 RIGHT}";:INPUT#3,
       IN$:IF IN$=N$ THEN CLOSE3:GOTO220
QC 560 FOR I=1 TO 25 STEP3:B$=MID$(IN$,I):GOSUB320
       :IF I<25 THEN GOSUB380:A(I/3)=A
PK 570 NEXT: IF A <> CK THEN GOSUB1060: PRINT "{BLK}
       {RVS} ERROR: REENTER LINE [4]":F=1:GOTO440
HJ 580 GOSUB1080:B=BS+AD-SA:FOR I=0 TO 7:POKE B+I,
       A(I):NEXT
QQ 590 AD=AD+8:IF AD>EA THEN CLOSE3:PRINT"{DOWN}
       {BLU}** END OF ENTRY **{BLK}{2 DOWN}":GOTO7
       ØØ
GQ 600 F=0:GOTO440
QA 610 PRINT"{CLR}{DOWN}{RVS} DISPLAY DATA ":GOSUB
       400:IF INS=NS THEN220
RJ 620 PRINT"{DOWN}{BLU}PRESS: {RVS}SPACE{OFF} TO
       {SPACE}PAUSE, {RVS}RETURN{OFF} TO BREAK[4]
       { DOWN } "
KS 630 GOSUB360:B=BS+AD-SA:FORI=BTO B+7:A=PEEK(I):
       GOSUB350:GOSUB380:PRINT S$;
CC 640 NEXT:PRINT"{RVS}";:A=CK:GOSUB350:PRINT
KH 650 F=1:AD=AD+8:IF AD>EA THENPRINT"{DOWN}{BLU}*
      * END OF DATA **":GOTO220
KC 660 GET A$:IF A$=R$ THEN GOSUB1080:GOTO220
EQ 670 IF A$=S$ THEN F=F+1:GOSUB1080
AD 680 ONFGOTO630,660,630
CM 690 PRINT"{DOWN}{RVS} LOAD DATA ":OP=1:GOTO710
PC 700 PRINT"{DOWN}{RVS} SAVE FILE ":OP=0
RX 710 IN$=N$:INPUT"{DOWN}FILENAME[4]";IN$:IF IN$=
       N$ THEN22Ø
```

PR 720 F=0:PRINT"{DOWN}{BLK}{RVS}T{OFF}APE OR

{RVS}D{OFF}ISK: [4]";

- FP 73Ø GET A\$:IF A\$="T"THEN PRINT"T{DOWN}":GOTO88Ø
- HO 740 IF A\$ <> "D"THEN 730
- HH 750 PRINT"D{DOWN}":OPEN15,8,15,"I0:":B=EA-SA:IN \$="0:"+IN\$:IF OP THEN810
- SQ 760 OPEN 1,8,8,IN\$+",P,W":GOSUB860:IF A THEN220
- FJ 770 AH=INT(SA/256):AL=SA-(AH*256):PRINT#1,CHR\$(AL);CHR\$(AH);
- PE 780 FOR I=0 TO B:PRINT#1,CHR\$(PEEK(BS+I));:IF S
 T THEN800
- FC 79Ø NEXT:CLOSE1:CLOSE15:GOTO94Ø
- GS 800 GOSUB1060:PRINT"{DOWN}{BLK}ERROR DURING SAV E: [4]":GOSUB860:GOTO220
- MA 81Ø OPEN 1,8,8,IN\$+",P,R":GOSUB86Ø:IF A THEN22Ø
- GE 820 GET#1,A\$,B\$:AD=ASC(A\$+Z\$)+256*ASC(B\$+Z\$):IF AD<>SA THEN F=1:GOTO850
- RX 830 FOR I=0 TO B:GET#1,A\$:POKE BS+I,ASC(A\$+Z\$): IF(I<>B)AND ST THEN F=2:AD=I:I=B
- FA 840 NEXT: IF ST <> 64 THEN F=3
- FQ 850 CLOSE1:CLOSE15:ON ABS(F>0)+1 GOTO960,970
- SA 860 INPUT#15,A,A\$:IF A THEN CLOSE1:CLOSE15:GOSU B1060:PRINT"{RVS}ERROR: "A\$
- GO 87Ø RETURN
- EJ 880 POKE183, PEEK(FA+2): POKE187, PEEK(FA+3): POKE1 88, PEEK(FA+4): IFOP=0THEN920
- HJ 890 SYS 63466:IF(PEEK(783)AND1)THEN GOSUB1060:P RINT"{DOWN}{RVS} FILE NOT FOUND ":GOTO690
- CS 900 AD=PEEK(829)+256*PEEK(830):IF AD<>SA THEN F =1:GOTO970
- SC 910 A=PEEK(831)+256*PEEK(832)-1:F=F-2*(A<EA)-3*
 (A>EA):AD=A-AD:GOTO930
- KM 920 A=SA:B=EA+1:GOSUB1010:POKE780,3:SYS 63338
- JF 93Ø A=BS:B=BS+(EA-SA)+1:GOSUB1Ø1Ø:ON OP GOTO95Ø :SYS 63591
- AE 940 GOSUB1080:PRINT"{BLU}** SAVE COMPLETED **":
 GOTO220
- XP 95Ø POKE147, Ø:SYS 63562:IF ST>Ø THEN97Ø
- FR 960 GOSUB1080:PRINT"{BLU}** LOAD COMPLETED **":
 GOTO220
- DP 970 GOSUB1060:PRINT"{BLK}{RVS}ERROR DURING LOAD :{DOWN}[4]":ON F GOSUB980,990,1000:GOTO220
- PP 980 PRINT"INCORRECT STARTING ADDRESS (";:GOSUB3 60:PRINT")":RETURN
- GR 990 PRINT"LOAD ENDED AT ";:AD=SA+AD:GOSUB360:PR
 INT DS:RETURN
- FD 1000 PRINT"TRUNCATED AT ENDING ADDRESS": RETURN
- RX 1010 AH=INT(A/256):AL=A-(AH*256):POKE193,AL:POK E194,AH
- FF 1020 AH=INT(B/256):AL=B-(AH*256):POKE174,AL:POK E175,AH:RETURN
- FX 1030 IF AD<SA OR AD>EA THEN1050

		·
на	1040	IF(AD>511 AND AD<40960)OR(AD>49151 AND AD<
		53248)THEN GOSUB1080:F=0:RETURN
HC	1050	GOSUB1060:PRINT" {RVS} INVALID ADDRESS
		{DOWN}{BLK}":F=1:RETURN
AR	1060	POKE SD+5,31:POKE SD+6,208:POKE SD,240:POK
	•	E SD+1,4:POKE SD+4,33
DX	1Ø7Ø	FOR S=1 TO 100:NEXT:GOTO1090
PF	1080	POKE SD+5,8:POKE SD+6,240:POKE SD,0:POKE S
		D+1,90:POKE SD+4,17
AC	1090	FOR S=1 TO 100:NEXT:POKE SD+4,0:POKE SD,0:
		DOVE CD+1 G-DEMILDA

Program 1 Space Arena

Once you've typed in and saved a copy of "MLX" to disk or tape, load and run it. You'll be asked to provide two addresses before you can begin entering "Space Arena." Respond to the prompts with

Starting Address: C000 Ending Address: CF8F

Space Arena

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
CØØØ:A9 37 85 FC A9 D7 85 FE
C008:A0 00 84 FB 84 FD 78 A5 DC
CØ1Ø:Ø1 29 FB 85 Ø1 B1 FD 91
                             9Ø
CØ18:FB 88 DØ F9 C6 FE C6 FC
CØ2Ø:A5 FC C9 2F DØ EF AØ
                          2F
                             96
CØ28:B9 36 CF 99 ØØ 34 88 1Ø 99
CØ3Ø:F7 A5 Ø1 Ø9 Ø4 85 Ø1 58 58
CØ38:A9 1C 8D 18 DØ AØ ØØ
CØ4Ø:FB A9 DD 85 FD A9 2Ø 85 9A
CØ48:FC A9 CB 85 FE B1 FD FØ
CØ5Ø:1D 91 FB E6 FB DØ Ø2 E6 CØ
CØ58:FC E6 FD DØ Ø2 E6 FE A5 2E
CØ6Ø:FE C9 CF DØ E8 A5 FD C9 7E
CØ68:36 DØ E2 4C 8C CØ E6 FD 8D
C070:D0 02 E6 FE B1 FD A8 A9 28
CØ78:00 88 91 FB DØ FB B1 FD E5
CØ8Ø:18 65 FB 85 FB 9Ø Ø2 E6 4C
CØ88:FC 4C 59 CØ AØ 18 A9
                          ØØ 8B
CØ9Ø:99 ØØ D4 88 1Ø FA AØ
                          18 C7
CØ98:B9 38 C7 99 ØØ D4 88
                          10 ØC
CØAØ:F7 AØ ØØ B9 DD C7 99 ØØ 23
CØA8:04 B9 DD C8 99 00 05
                          В9
                             73
CØBØ:DD C9 99 ØØ
                 Ø6
                    B9 DD
                          CA 64
CØB8:99 ØØ Ø7 A9 ØF
                    99 ØØ
                          D8 3A
CØCØ:99 ØØ D9 99 ØØ DA 99
                          ØØ 82
CØC8:DB 88 DØ D7
                 2Ø
                    FF
                       C6 AØ 21
CØDØ:26 B9 66 CF 99
                   28 D8 88 45
CØD8:DØ F7 A9 ØØ 8D 2Ø DØ 8D 12
CØEØ:21 DØ AD 36 C7 Ø9 3Ø
                          8D 9Ø
CØE8:5E Ø7 AD 37 C7 Ø9
                       3Ø 8D D4
CØFØ:ØE Ø7 2Ø E4 FF C9 85 FØ BØ
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CØF8:36	C9	86	FØ	18	C9	87	DØ	C7
C100:F1	EE	36	C7	AD	36	C7	C9	1B
C1Ø8:Ø6	DØ	Ø5	Α9	Ø1	8D	36	C7	7Ø
C110:09	3Ø	8D	5E	Ø7	4C	F2	CØ	CB
C118:EE	37	C7	AD	37	C7	C9	Ø4	25
C120:D0	Ø5	A9	Ø1	8D	37	C7	Ø9	74
C128:3Ø	8D	ØE	Ø7	4C	F2	CØ	ΑØ	A9
C130:03	A9	ØØ	99	32	C7	88	1Ø	ØВ
C138:FA	2Ø	FF	C6	A9	ØØ	8D	Ø8	1E
C140:DC	8D	Ø9	DC	8D	ØA	DC	A9	7C
C148:AØ	85	FD	Α9	Ø4	85	FE	A2	ΑE
C150:13	ΑØ	26	Bl	FD	3Ø	Ø4	Α9	C7
C158:20	91	FD	88	DØ	F5	A 5	FD	4Ø
C160:18	69	28	85	FD	9Ø	Ø2	E6	C4
C168:FE	CA	DØ	E5	ΑØ	Ø2	В9	ØØ	17
C170:00	99	ØØ	Ø8	C8	DØ	F7	A9	FD
C178:00	8D	ØE	DC	A2	4Ø	BD	A8	29
C18Ø:C7	95	10	CA	1Ø	F8	A9	84	38
C188:8D	F8	Ø7	A9	8C	8D	F9	Ø7	22
C190:A9	ØØ	85	47	85	4E	ΑØ	18	CC
C198:88	99	ØØ	D4	DØ	FA	A9	ØF	E8
ClAØ:8D	18	D4	A9	8Ø	8D	14	D4	5D
ClA8:A9	81	8D	12	D4	ΑØ	Ø7	Α9	15
ClBØ:ØC	99	27	DØ	88	1Ø	FA	A9	В6
ClB8:ØE	8D	27	DØ	8D	2D	DØ	A9	Ø5
C1CØ:05	8D	28	DØ	8D	2E	DØ	A9	AC
C1C8:3C	8D	10	DØ	A9	ØB	8D	25	18
ClDØ:DØ	A9	ØF	8D	26	DØ	AD	37	E8
C1D8:C7	ØA	ØA	ØA	ØA	85	Ø2	A9	B8
ClEØ:6Ø	38	E5	Ø2	8D	Ø7	DC	8D	4F
C1E8:06	DC	A9	Ø9	8D	ØF	DC	A9	78
ClFØ:3F	8D	15	DØ	A9	Ø1	2C	ØF	DF
C1F8:DC	DØ	FB	A9	Ø9	8D	ØF	DC	B2
C200:AD	1E	DØ	85	45	29	C3	DØ	7D
C2Ø8:Ø3	4C	DC	C2	10	51	A5	45	40
C210:29	Ø1	FØ	35	A2	ØØ	AØ	ØE	4Ø
C218:20	5A	C4	DØ	2C	A9	Ø1	2Ø	14
C220:EE	C6	A2	Ø1	B5	3E	3Ø	Ø4	3E
C228:4A	4C	2E	C2	38	6A	18	75	E8
C23Ø:3Ø	10	Ø8	C9	CØ	BØ	ØA	A9	F5
C238:CØ	DØ	Ø6	C9	41	9Ø	Ø2	A9	A9
C240:40	95	3Ø	CA	FØ	DE	4C	50	E9
C248:C2	A2	ØE	2Ø	D7	C4	DØ	ØF	1E
C25Ø:AD	15	DØ	29	7F	8D	15	DØ	CB
C258:AØ	ØØ	84	1F	2Ø	28	C5	A5	83
C260:45	29	40	FØ	53	A5	45	29	CE
C268:02	FØ	35	A2	Ø2	AØ	ØC	20	C6
C270:5A	C4	DØ	2C	A9	Ø1	20	EE	Bl
C278:C6	A2	Ø1	B5	3C	3Ø	Ø4	4A	7A
C28Ø:4C	85 80	C2	38	6A	18	75	32	3A
C288:1Ø	Ø8	C9	CØ	BØ	ØA	A9	CØ	1F

C290:D0 06 C9 41 90 02 A9 40 6D C298:95 32 CA FØ DE 4C A7 C2 18 C2AØ:A2 ØC 2Ø D7 C4 DØ 11 AD 35 C2A8:15 DØ 29 BF 8D 15 DØ A9 1A C2BØ:00 85 1D AØ Ø7 2Ø 28 C5 14 C2B8:A5 45 29 Ø2 FØ ØC A2 Ø2 A6 C2CØ:2Ø D7 C4 DØ Ø5 AØ Ø1 4C EA C2C8:5E C5 A5 45 29 Ø1 FØ ØC 33 C2DØ:A2 ØØ 2Ø D7 C4 DØ Ø5 ΑØ 3D C2D8:00 4C 5E C5 20 ØB C6 C6 1B C2E0:40 D0 7A A9 07 85 40 **A2** 16 C2E8:01 BD 00 DC 29 04 D0 05 2C C2FØ:D6 41 4C FE C2 BD ØØ DC 95 C2F8:29 Ø8 DØ ØD F6 41 B5 41 69 C3ØØ:29 ØF 95 41 Ø9 8Ø 9D F8 25 C308:07 BD 00 DC 29 Ø1 DØ 28 67 C310:B4 41 8A ØA AA **B5** 3Ø 18 D8 C318:79 75 C7 C9 9Ø Ø4 C9 6D 41 C320:C0 90 02 95 3Ø B5 31 18 98 C328:79 71 C7 C9 41 9Ø Ø4 C9 7C 95 C330:C0 90 02 31 8A 4A AA C8 C338:CA FØ AE AD ØØ DC 29 Ø1 D8 C340:85 02 AD 01 DC 29 Ø1 FØ 4F C348:04 A4 02 D0 ØВ 18 69 1Ø E3 C350:E5 02 8D 0F D4 4C 5D C3 44 C358:A9 ØØ 8D ØF D4 A5 43 DØ EB C360:4E AD 15 DØ 29 BF 8D 15 A2 C368:DØ AD ØØ DC 29 1Ø DØ 41 FD C370:A0 00 2Ø 43 C5 A9 8Ø 85 DB C378:43 A5 10 18 69 20 85 1C 81 C380:A5 11 69 Ø1 85 1D A5 20 68 2C A5 21 C388:18 69 40 85 69 **7A** C390:01 85 2D A4 41 В9 75 C7 8D C398:ØA ØA ØA ØA 85 3C B9 71 8B C3AØ:C7 ØA ØA ØA ØA 85 3D AD FE C3A8:15 DØ Ø9 4Ø 8D 15 DØ C6 3D C3BØ:43 A5 44 DØ 4E AD 15 DØ FC C3B8:29 7F 8D 15 DØ AD Ø1 DC D3 41 Ø7 C3CØ:29 10 D0 ΑØ 2Ø 43 B3 C3C8:C5 A9 8Ø 85 44 A5 12 18 FA C3DØ:69 5Ø 85 1E A5 13 69 Ø1 Ø1 1F A5 C3D8:85 22 18 69 40 85 2E C3EØ:2E A5 23 69 Ø1 85 2F A4 Ø5 C3E8:42 B9 75 C7 ØA ØA ØA ØA C1 3E B9 71 C7 ØA ØA ØA 9D C3FØ:85 C3F8:ØA 85 3F AD 15 DØ Ø9 8Ø 28 AE ØA DC E9 C400:8D 15 D0 C6 44 FØ E8 A9 6Ø F4 C408:AD 09 DC Ø9 C410:F8 38 ED Ø9 DC D8 85 Ø2 C9 C418:4A 4A 4A 4A Ø9 3Ø 8D 3C A7 C420:04 A5 02 29 0F 09 30 8D 72

C428:3D Ø4 86 Ø2 AD 36 C7 38 5Ø C430:E5 02 09 3Ø 8D 3A Ø4 AD 5C C438:ØA DC CD 36 C7 FØ Ø3 4C 6F C440:F4 Cl A9 ØØ 8D 15 DØ AØ EC C448:02 B9 00 08 99 00 00 C8 57 4C C450:DØ F7 A9 Ø1 8D ØE DC 3Ø C458:8C CØ B5 10 38 F9 1Ø ØØ D9 C460:85 FD B5 11 F9 11 ØØ 85 8D C468:FE 90 0F A5 FD F9 51 C7 14 C470:A5 FE F9 52 C7 BØ 5D 4C F8 1Ø 13 C478:95 C4 B9 10 00 38 F5 C480:85 FD B9 11 00 F5 11 85 14 **A5** C488:FE A5 FD FD 51 C7 FE 8E C7 BØ 3F B5 2Ø 38 FA C490:FD 52 C498:F9 2Ø ØØ 85 FD B5 21 38 CØ C4AØ:F9 21 ØØ 85 FE 9Ø ØF A5 C5 C4A8:FD F9 61 C7 A5 FE F9 62 D7 C4BØ:C7 BØ 21 4C D1 C4 B9 2Ø 68 C4B8:00 38 F5 2Ø 85 FD B9 21 C9 C4CØ:ØØ F5 21 85 FE A5 FD FD CC C4C8:61 C7 A5 FE FD 62 C7 BØ 53 ØØ 6Ø A9 Ø1 6Ø A5 Ø4 C4D0:03 A9 C4D8:45 ØA ØA 85 Ø2 AØ ØA Ø6 CD C4E0:02 90 05 20 5A C4 F0 09 03 C4E8:88 88 CØ Ø2 DØ F1 A9 Ø1 B3 C4FØ:6Ø A9 Ø1 85 Ø2 C8 E8 B5 48 C4F8:3Ø 3Ø Ø7 4A 4A 4A 4C 88 C500:08 C5 4A 4A 4A 4A 09 F0 6D C5Ø8:18 79 30 00 10 08 C9 CØ F8 C510:B0 0A A9 C0 D0 06 C9 41 2B C518:90 02 A9 40 99 30 ØØ CA FD C520:88 C6 Ø2 FØ D2 A9 ØØ 6Ø 8E C528:A9 ØØ 99 Ø6 D4 99 47 ØØ B7 C53Ø:99 Ø4 D4 A9 ØA 99 Ø1 D4 4C C538:A9 35 99 Ø5 D4 A9 21 99 92 C540:04 D4 6Ø A9 ØØ 99 Ø6 D4 FØ C548:99 Ø4 D4 A9 28 99 47 ØØ ØD C550:99 Ø1 D4 A9 Ø9 99 Ø5 D4 AB C558:A9 11 99 Ø4 D4 6Ø A9 9Ø 7C Ø7 B9 85 C560:99 F8 **C7** 8D Ø5 DE C568:C6 E8 A9 Ø1 85 48 A9 2Ø 97 C570:20 EE C6 AØ Ø7 Α9 ØØ 88 12 C578:99 ØE D4 DØ FA A9 ØA 8D 1C C580:13 D4 A9 Ø8 8D ØF D4 A9 7C 12 D4 A9 C588:81 8D 1E 85 46 DE C590:20 ØB C6 A9 Ø1 2C ØF DC 16 C598:DØ FB A9 Ø9 8D ØF DC C6 7A C5AØ:46 DØ ED A9 80 8D 12 D4 ØF C5A8:A9 8C 8D 13 D4 A9 11 8D ØC C5BØ:ØF D4 A9 AØ 8D 16 D4 A9 5Ø C5B8:84 8D 17 D4 A9 1F 8D 18 17 C5CØ:D4 A9 81 8D 12 D4 A9 3C 9D C5C8:8D 15 DØ A9 46 85 46 2Ø ØA C5DØ:ØB C6 20 F2 C5 A9 Øl 2C C9 C5D8:0F DC D0 FB A9 09 8D ØF 98 C5EØ:DC C6 46 DØ EA A9 ØØ 8D ED C5E8:17 D4 A9 ØF 8D 18 D4 4C 1E C5FØ:7C C1 C6 48 DØ 14 A9 Ø8 BA C5F8:85 48 AØ ØA AD 87 C7 49 72 C600:01 8D 87 C7 99 ØØ Ø4 88 3C C6Ø8:1Ø FA 60 A2 ØE B5 3Ø 1Ø 4A C610:1D C9 FE BØ 3E 75 1Ø 95 Ø7 C618:10 B5 11 E9 00 95 11 C9 1E C620:05 90 28 D0 2E B5 1Ø C9 98 C628:40 BØ 28 4C 4B C6 C9 Ø3 D7 C630:90 21 75 1Ø 95 18 1Ø B5 55 C638:11 69 ØØ 95 11 DD 89 C7 DC C640:90 11 DØ Ø7 **B5** 10 DD 88 17 C648:C7 9Ø Ø8 B5 3Ø 49 FF A8 89 C650:C8 94 30 B5 10 85 Ø2 AØ Ø4 11 C9 3Ø 9Ø C658:08 B5 Ø2 E9 C7 C660:30 26 49 06 02 2A C9 3Ø 95 3Ø E6 Ø2 C668:9Ø Ø4 E9 88 DØ AØ C670:F2 A5 Ø2 9D ØØ DØ **B5** 31 DA C678:10 1D C9 FE BØ 3E 75 2Ø Ø8 C680:95 20 B5 21 E9 ØØ 95 21 45 28 DØ 90 2E **B5** C688:C9 11 2Ø 9E C690:C9 80 28 4C B4 ВØ C6 C9 48 C698:03 9Ø 21 18 75 20 95 2Ø E8 C6AØ:B5 21 69 ØØ 95 21 DD 99 Ø5 C6A8:C7 11 DØ Ø7 9Ø **B5** 20 DD 9A C6BØ:98 C7 90 Ø8 B5 31 49 FF 14 C6B8:A8 C8 94 31 B5 21 85 Ø2 B1 C6CØ:B5 2Ø AØ Ø6 46 Ø2 6A 88 3D C6C8:DØ FA 9D Ø1 DØ CA CA 30 B8 C6DØ:03 4C ØD C6 A5 49 8D 10 7E C6D8:DØ A4 47 FØ Ø6 88 84 47 92 C6EØ:8C Ø1 D4 A4 4E FØ Ø6 88 A4 C6E8:84 4E 8C Ø8 D4 60 F8 18 90 32 C7 9D 32 C7 BD 33 FB C6FØ:7D 9D 33 C7 D8 AØ A9 C6F8:C7 69 ØØ 34 C7 85 FD AD 35 33 C700:01 AD C7Ø8:C7 85 FE A2 Ø4 A9 ØØ Ø6 B3 C710:FD 26 FE 2A CA DØ F8 Ø9 3F 28 Ø4 C8 CØ Ø5 DØ 8F C718:3Ø 99 C720:0C A0 23 AD 32 C7 85 FD D6 C728:AD 33 C7 85 FE CØ 27 DØ C6 6Ø ØØ ØØ ØØ ØØ Ø1 Ø1 48 C73Ø:DA C738:00 Ø6 ØØ ØØ 11 ØF ØØ Ø4 12 ØØ ØC 2F C740:03 ØØ ØØ 15 ØF Ø4 C748:00 ØØ 15 ØF ØØ ØØ ØØ ØØ 6B C750:0F 30 03 30 03 80 04 80 79

	C758:04	1 8Ø	Ø4	8Ø	Ø4	FØ	ØØ	FØ	67
	C760:00	ØØ	Ø3	ØØ	Ø3	CØ	Ø4	СØ	34
	C768:04	1 CØ	Ø4	CØ	Ø4	ØØ	Ø1	ØØ	D8
	C77Ø:Ø3	L FA	FB	FC	FE	ØØ	Ø2	Ø4	8E
	C778:05	Ø6	Ø5	Ø4	Ø2	ØØ	FE	FC	F7
	C780:FF	FA	FB	FC	FE	3F	2E	85	F2
	C788:F			3C	7Ø	3B	7Ø	3B	ØE
	C79Ø:78			3B	3Ø	3F	3Ø	3F	Ø7
	C798:00		ØØ	3B	ØØ	39	ØØ	39	C8
	C7AØ:00		ØØ	39	ØØ	3D	ØØ	3D	44
	C7A8:90		DØ	3B	ØØ	21	ØØ	21	75
	C7BØ:00		ØØ	21	ØØ	ØØ	ØØ	ØØ	9A
	C7B8:C		CØ	25	40	16	ØØ	20	D6
	C7CØ:C		8ø	33	ØØ	ØØ	ØØ	ØØ	3E
	C7C8:00		ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	58
	C7DØ:00		ØØ	ØØ		ØØ			
	C7D8:01				ØØ		ØØ	ØØ	6Ø
	C7EØ:40		ØC	ØØ	ØØ	55	40	40	81
			72	40	40	40	40	40	В6
	C7E8:40		40	40	40	40	72	40	DC
	C7FØ:46		40	72	40	40	40	4Ø	A3
	C7F8:40		40	40	40	4Ø	40	72	BA
	C800:40		40	40	49	5D	3Ø	3Ø	1E
	C8Ø8:30		5D	84	84	84	84	84	75
	C810:84		84	84	84	84	5D	ЗØ	FE
	C818:37		3Ø	5D	84	84	84	84	72
	C820:84		84	84	84	84	84	5D	8a
	C828:30		ЗØ	ЗØ	5D	6B	4Ø	4Ø	40
	C83Ø:40		71	4Ø	40	4Ø	4Ø	4Ø	E 7
	C838:40		4Ø	4Ø	4Ø	4Ø	71	40	2C
	C84Ø:40		4Ø	71	4Ø	4Ø	4Ø	4Ø	E4
	C848:40	40	4Ø	4Ø	4Ø	4Ø	4Ø	71	ØВ
	C85Ø:40	40	4Ø	4Ø	73	5D	2Ø	2Ø	8F
	C858:20	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	E9
	C860:80	20	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	22
	C868:20	20	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	F9
	C87Ø:20	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	Ø2
	C878:20	2Ø	2Ø	2Ø	5D	5D	2Ø	2Ø	E8
	C88Ø:20		2Ø	2Ø	2Ø	2Ø	20	2Ø	12
	C888:20	20	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	1A
	C890:20	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	22
	C898:20		2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	2A
,	C8AØ: 20	2Ø	2Ø	2Ø	5D	5D	2Ø	20	11
	C8A8:20		2Ø	20	2Ø	20	13	2Ø	38
	C8BØ:10		Øī	2Ø	Ø3	2Ø	Ø5	20	37
	C8B8:20		Ø1	2Ø	12	2Ø	Ø5	2Ø	BF
	C8CØ:ØE		Øī	2Ø	2Ø	2Ø	2Ø	2Ø	65
	C8C8:20		2Ø	2Ø	5D	5D	2Ø	2Ø	39
	C8DØ:20		2Ø	2ø	2Ø	8Ø	63	63	AD
	C8D8:63		63	63	63	63	63	63	6A
	C8EØ:63		63	63	63	63	63	63	72
	C8E8:63		63	2Ø	2Ø	2Ø	2Ø	20	55
		-	-						

C8FØ:81 2Ø 2Ø 2Ø 5D 5D 2Ø 2Ø 12 C8F8:20 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø 8A 19 3A 2Ø 12 C9ØØ:2Ø Ø2 Ø2 19 31 C9Ø8:Ø1 ØE 2Ø Ø6 Ø9 ØC Ø5 13 99 20 20 20 2Ø 2Ø 2Ø 2Ø A3 C910:20 5D 5D 2Ø 2Ø 8A C918:20 20 20 20 20 20 81 2Ø 2Ø 2Ø 2Ø C9 C920:20 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø BB C928:20 2Ø C930:20 20 20 20 20 2Ø 2Ø 2Ø C3 C938:83 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø 7D 5D 5D 2Ø 2Ø B2 C940:20 20 20 20 20 20 20 2Ø 2Ø 2Ø 2Ø DB C948:20 C950:20 20 20 20 2Ø 2Ø 82 2Ø A8 C958:20 20 20 20 20 20 20 20 EB 20 20 80 2Ø 8Ø 2Ø 6Ø BB C960:20 C968:20 20 20 20 5D 5D 2Ø 2Ø DA 20 20 20 2Ø 2Ø 2Ø 20 04 C97Ø:2Ø 2Ø 2Ø 2Ø 2Ø ØC C978:20 20 20 20 C980:20 20 20 2Ø 2Ø 2Ø 2Ø 2Ø 14 C988:8Ø 2Ø 2Ø 2Ø 20 20 20 2Ø 4C 20 20 20 5D 5D 2Ø 2Ø Ø3 C990:20 C998:2Ø 8Ø 2Ø 2Ø 20 20 06 31 21 C9AØ:2Ø 2D 2Ø 13 14 Ø1 12 14 A1 C9A8:20 07 01 0D 05 20 20 20 08 C9BØ:2Ø 20 20 20 2Ø 20 20 2Ø 44 C9B8:20 20 20 20 5D 5D 20 20 2B C9CØ:2Ø 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø 81 B5 20 20 20 2Ø 5C C9C8:20 20 20 20 C9DØ:2Ø 2Ø 2Ø 2Ø 2Ø 20 20 2Ø 64 20 20 20 C9D8:20 20 20 20 2Ø 6C C9E0:20 20 20 2Ø 5D 5D 2Ø 20 53 C9E8:20 20 20 20 2Ø 2Ø Ø6 33 **5B** C9FØ:2Ø 2D 2Ø Ø3 Ø8 Ø1 ØE Ø7 7B C9F8:05 20 13 10 05 05 04 2Ø DE CAØØ:2Ø 2Ø 2Ø 2Ø 2Ø 8Ø 83 2Ø DD CAØ8:2Ø 2Ø 2Ø 2Ø 5D 5D 2Ø 83 DF CA10:20 20 20 20 20 20 20 8Ø Ø6 CA18:20 20 81 2Ø 2Ø 2Ø 2Ø 2Ø D9 CA20:20 20 20 20 20 2Ø 20 2Ø B5 2Ø C9 20 20 20 20 CA28:20 20 80 2Ø 2Ø 5D 5D 2Ø 81 Ø6 CA30:20 20 20 20 06 35 AE CA38:20 20 20 2Ø CA40:20 2D 20 03 08 01 CC ØE Ø7 ØC 44 CA48:05 20 14 09 0D 05 2Ø 14 2Ø 2Ø 2Ø 2Ø F1 CA50:09 ØD Ø9 2Ø 2Ø 5D 5D 2Ø 2Ø CC CA58:20 20 20 20 2Ø 20 F5 CA60:20 20 2Ø 2Ø 20 20 20 2Ø 2Ø ØA CA68:20 20 8Ø 2Ø 2Ø 2Ø 2Ø 2Ø Ø6 CA70:20 20 2Ø CA78:20 20 20 20 2Ø 2Ø 2Ø 2Ø ØE CA80:20 20 20 20 5D 5D 20 20 F4

CA88:2Ø	2Ø	1E						
CA90:20	2Ø	26						
CA98:20	2Ø	2Ø	8Ø	20	2Ø	2Ø	2Ø	34
CAAØ:2Ø	2Ø	2Ø	2Ø	20	2Ø	2Ø	2Ø	36
CAA8:20	2Ø	8Ø	2Ø	5D	5D	20	2Ø	29
CABØ:81	2Ø	F6						
CAB8:20	2Ø	4E						
CACØ:20	2Ø	81	2Ø	2Ø	2Ø	2Ø	2Ø	82
CAC8:82	2Ø	8F						
CADØ:20	2Ø	20	8Ø	5D	5D	2Ø	2Ø	4B
CAD8:20	2Ø	2Ø	2Ø	20	2Ø	2Ø	2Ø	6E
CAEØ:2Ø	2Ø	2Ø	13	1Ø	Ø5	Ø5	Ø4	66
CAE8:20	3D	2Ø	35	2Ø	81	2Ø	20	9C
CAFØ:20	2Ø	8Ø	2Ø	2Ø	81	2Ø	2Ø	18
CAF8:20	2Ø	2Ø	2Ø	5D	5D	2Ø	2Ø	6D
CBØØ:2Ø	2Ø	97						
CBØ8:20	2Ø	9F						
CB10:20	2Ø	A7						
CB18:20	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	20	AF
CB20:20	2Ø	2Ø	2Ø	5D	5D	2Ø	2Ø	96
CB28:20	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	8Ø	2Ø
CB3Ø:2Ø	2Ø	2Ø	2Ø	14	Ø9	ØD	Ø5	C9
CB38:2Ø	3D	2Ø	32	3A	3Ø	3Ø	20	69
CB40:20	8Ø	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	EF
CB48:20	2Ø	2Ø	2Ø	5D	5D	2Ø	83	22
CB5Ø:2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	2Ø	20	E7
CB58:2Ø	2Ø	2Ø	2Ø	81	2Ø	2Ø	2Ø	FA
CB60:80	2Ø	28						
CB68:20	2Ø	FF						
CB70:20	2Ø	2Ø	2Ø	5D	5D	2Ø	2Ø	E6
CB78:20	2Ø	1Ø						
CB80:20	2Ø	18						
CB88:20	2Ø							
CB90:20	2Ø	2Ø	8Ø	2Ø	2Ø	2Ø	2Ø	2E
CB98:20	2Ø	2Ø	2Ø	5D	4A	40	40	23
CBAØ:4Ø	4Ø	40	4Ø	40	40	40	4Ø	38
CBA8:40	40	4Ø	4Ø	40	40	40	40	4Ø
CBBØ:4Ø	40	4Ø	4Ø	40	40	40	4Ø	48
CBB8:40	40	40	40	4Ø	4Ø	40	4Ø	5Ø
CBCØ:4Ø	40	4Ø	4Ø	4B	ØØ	ØØ	ØØ	EE
CBC8:00	ØØ	6Ø						
CBDØ:ØØ	ØØ	ØØ	ØØ	ØØ	8Ø	8Ø	92	FD
CBD8:93	94	95	91	91	Øl	8Ø	ØØ	BC
CBEØ:01	ØЗ	CØ	ØØ	Ø1	ØЗ	СØ	ØØ	67
CBE8:01	Ø7	ΕØ	ØØ	Ø1	Ø7	ΕØ	ØØ	C4
CBFØ:01	ØF	FØ	ØØ	Øl	ØF	FØ	ØØ	11
CBF8:01	1F	F8	ØØ	Ø1	1F	F8	ØØ	6E
CCØØ:Ø1	ЗØ	ØC	ØØ	24	ЗØ	ØØ	Ø2	8B
CCØ8:7Ø	ØØ	Ø2	FØ	ØØ	Øl	Ø1	FØ	2Ø
CC10:00	Øl	ØЗ	FØ	ØØ	Ø1	Ø7	FØ	5C
CC18:00	Øl	ØF	FØ	ØØ	Ø1	1F	FØ	16

CC20:00 01 37 F0 00 02 B0 00 59 24 ØC ØØ CC28:02 3Ø ØØ Ø2 3C Bl ØØ Ø1 Ø3 F8 ØØ EF CC3Ø:ØØ Ø2 FC CC38:01 0F F8 ØØ Ø1 3F F8 ØØ 2C Ø1 Ø1 ØØ 28 CC40:01 Ø7 FØ ØØ FØ CC48:02 FØ ØØ Ø2 6Ø ØØ Ø2 6Ø **A6** 53 CC5Ø:00 29 7F FE ØØ Ø1 1F FC CC58:00 01 ØF F8 ØØ Ø1 ØF FØ B6 CC60:00 01 Ø7 ΕØ ØØ Ø1 ØЗ CØ F3 Ø1 8Ø ØØ Ø1 Ø3 ØØ 74 CC68:00 01 ØØ Ø2 1E ØØ Ø2 CC7Ø:24 38 1F 5E Ø1 2D CC78:CØ ØØ Ø1 1F FØ ØØ 1F CC8Ø:FE ØØ Ø1 1F FØ ØØ Ø1 1F 54 CC88:CØ ØØ Ø1 1E ØØ Ø2 38 ØØ FC ØØ Ø2 Ø1 8Ø ØØ Ø1 28 CC9Ø:24 Ø3 CC98:03 CØ ØØ Ø1 Ø7 ΕØ ØØ Ø1 BØ CCAØ:ØF FØ ØØ Ø1 ØF F8 ØØ Ø1 CCA8:1F FC ØØ Ø1 7F FE ØØ 27 40 CCBØ:CØ ØØ Ø2 CØ ØØ Ø1 Ø1 ΕØ DD Ø1 Ø3 EØ ØØ Ø1 ØF EØ CCB8:00 7F FØ ØØ Ø1 1F FØ CC CCCØ:00 Ø1 CCC8:00 Ø1 Ø7 FØ ØØ Ø1 Ø1 F8 91 78 ØØ Ø2 18 ØØ 24 CCDØ:00 Ø2 BØ ØØ Ø1 CCD8:30 ØØ Ø2 37 FØ 39 CCEØ:00 Øl 1F FØ ØØ Ø1 ØF FØ CCE8:00 Øl Ø7 FØ ØØ Ø1 Ø3 FØ AD Ø1 FØ ØØ Ø2 FØ ØØ E3 CCFØ:00 Ø1 CCF8:02 7Ø ØØ Ø2 3Ø ØØ 23 ЗØ C7 CDØØ:ØC ØØ Ø1 1F F8 ØØ Ø1 1F 9C CDØ8:F8 ØØ Ø1 ØF FØ ØØ Ø1 ØF CD10:FØ ØØ Ø1 Ø7 EØ ØØ Ø1 Ø7 C4 7F CD18:EØ ØØ Ø1 Ø3 CØ ØØ Ø1 Ø3 CD20:CØ ØØ Øl Øl 80 ØØ 2Ø ØC Ø2 ØØ CD28:00 02 0D 00 ØF EC ØC CD30:01 ØF F8 ØØ Ø1 ØF FØ ØØ 55 CD38:01 0F E0 00 Øl ØF CØ ØØ F9 CD40:01 ØF 8Ø ØØ Ø1 ØF ØØ Ø2 76 Ø3 ØØ CD48:ØE ØØ Ø2 ØC ØØ 1 E 6A CD50:02 03 ØØ Ø2 Ø7 8Ø ØØ Ø1 Ø9 CD58:07 CØ ØØ Ø1 Ø7 FØ ØØ Ø1 CD60:0F FE ØØ Ø1 ØF F8 ØØ Ø1 ВØ CD68:ØF EØ ØØ Ø1 1F 8Ø ØØ Ø1 CF CD7Ø:1E ØØ Ø2 18 ØØ 25 CØ ØØ ØØ Ø1 ØЗ CØ ØØ **7**A CD78:01 Ø1 8Ø CD80:01 07 ΕØ ØØ Ø1 ØF FØ ØØ AØ CD88:01 1F FØ ØØ Øl 3F F8 ØØ 81 CD90:01 7F FE ØØ 2D 10 ØØ Ø2 48 ØF 99 CD98:78 ØØ Ø1 ØЗ F8 ØØ Ø1 CDAØ:F8 ØØ Ø1 7F F8 ØØ Ø1 ØF A9 CDA8:F8 ØØ Ø1 Ø3 F8 ØØ Ø2 78 55 CDBØ:00 02 1C 00 2C 7F FE 00 AD

CDB8:01	3F	F8	ØØ	Ø1	1 F	FØ	ØØ	2A
CDCØ:01	ØF	FØ	ØØ	Ø1	Ø7	ΕØ	ØØ	A4
CDC8:01	Ø3	CØ	ØØ	Øl	Øl	8Ø	ØØ	CA
CDDØ:02	СØ	ØØ	2Ø	30	ØØ	Ø2	3C	61
CDD8:00	Ø2	3F	ØØ	Ø2	1F	CØ	ØØ	EΑ
CDEØ:01	lF	FØ	ØØ	Ø1	1F	FC	ØØ	61
CDE8:01	ØF	ΕØ	ØØ	Ø1	ØF	8Ø	ØØ	2A
CDFØ:Ø1	ØF	ØØ	Ø2	Ø6	ØØ	Ø2	Ø6	2B
CDF8:00	1E	ØC	ØØ	Ø2	ØE	ØØ	Ø2	E7
CEØØ:ØF	ØØ	Ø2	ØF	8Ø	ØØ	Ø1	ØF	6B
CEØ8:CØ	ØØ	Ø1	ØF	EØ	ØØ	Ø1	ØF	2F
CE10:FØ	ØØ	Ø1	ØF	F8	ØØ	Ø1	ØF	1Ø
CE18:EC	ØØ	Ø1	ØD	ØØ	Ø2	ØC	ØØ	3D
CE20:21	Ø8	10	ØØ	Ø1	Ø4	32	ØØ	CE
CE28:01	Ø6	14	ØØ	Ø1	14	A4	ØØ	EB
CE30:01 CE38:6D	18	CC	ØØ	Ø1	Ø3	ØØ	Ø2	Ø4
CE40:CD	1C	ØØ Ø1	Ø1	Ø8	4A	ØØ	Ø2	ØF
CE48:00	ØØ		Ø9	3Ø	ØØ	Ø1	Ø1	73
CE50:FØ	Ø3	80	ØØ	lD	60	ØØ	Ø2	23
CE58:01	ØØ ØF	Ø2 BE	6Ø FØ	ØØ	3A	FF	ØØ	95
CE60:F9	7C	3F	F9	ØE BC	FF 3D	FØ	3F	B2
CE68:F5	7B	DA	B5	BA		6A F5	B8	ØA
CE70:A6	F6	B6	A6	FB	6A DA	56	B6 FA	B8 53
CE78:6A	5A	3A	AA	58	3A	A5	A8	73
CE80:16	96	58	ØB	56	6Ø	ØB	59	73 2E
CE88:AØ	ØØ	Ø1	AA	ØØ	ØC	FF	ØØ	71
CE90:01	ØF	EF	BØ	ØВ	FF	ВØ	3D	72
CE98:7F	FC	3D	B5	AC	2F	E5	B8	DE
CEAØ:FF	A6	FA	FF	AB	DA	E5	AA	86
CEA8:69	F6	EA	AA	FA	EF	96	FB	81
CEBØ:75	96	3A	B5	98	3A	65	98	62
CEB8:25	9A	58	ø9	55	6Ø	ØA	55	CØ
CECØ:AØ	ØØ	Ø1	AA	ØØ	ØC	FF	ØØ	A9
CEC8:01	Ø3	FF	FØ	ØE	D7	FØ	ØE	76
CEDØ:DB	FC	3B	FF	AC	3B	EA	68	93
CED8:EF	AE	BA	EF	В5	AA	FE	D5	9C
CEEØ:A6	FE	D5	E 6	F5	96	D6	F6	69
CEE8:EB	E6	3B	EF	58	3A	AA	58	F5
CEFØ:2A	99	98	Ø9	99	6Ø	ØA	55	65
CEF8:AØ	ØØ	Øl	AA	ØØ	ØC	FF	ØØ	El
CFØØ:01	ØF	FΒ	FØ	ØE	FF	FØ	3B	FF
CFØ8:FF	FC	3B	5A	AC	3F	6E	98	CB
CF10:6F	6D	ΑE	BF	В6	AA	FE	6A	5D
CF18:66	F6	BA	В6	DB	ΑE	96	FE	31
CF2Ø:B5	56	ЗА	В5	98	39	Α5	98	6Ø
CF28:2A	E5	98	Ø9	5A	6Ø	ØA	55	В7
CF3Ø:AØ	ØØ	Ø1	AA	ØØ	ØB	ØØ	ØØ	17
CF38:00	1Ø	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	DB
CF40:00	18	ØØ	ØØ	ØØ	ØØ	2Ø	Ø4	2A
CF48:00	3A	5C	ØØ	2Ø	Ø4	ØØ	1Ø	23

Type It In

Program 2 **Saloon Shootout**

Make sure you have a copy of "MLX" entered and saved to tape or disk before you begin typing in "Saloon Shootout." Load and run MLX, and answer the prompts with

Starting Address: 2800 Ending Address: 3BC7

When you've finished typing, be sure to save a copy of the data before you exit MLX.

Saloon Shootout

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
2800:4C 1A 28 00
                 ØØ ØØ ØØ ØØ
2808:00 00 00 00
                 øø øø øø
                          ØØ 58
2810:00 00 00 00
                 ØØ ØØ
                       ØØ ØØ 6Ø
2818:00 00 A9 00
                 8D 5C Ø3 8D
                              ØF
2820:5D Ø3 A9 93
                 2Ø D2
                       FF
                           20 BA
2828:B2 33 2Ø 4C 2F 2Ø
                        5D 34 5Ø
2830:20 AD 2E 20 70 38
                       20 18 80
2838:2E 2Ø FC 29 CE ØB
                        28
                          DØ
2840:0C AD 0C 28 8D 0B
                       28 2Ø ØF
2848:08 30 20 5F
                 2A CE
                       Ø9 28 69
2850:DØ ØC AD ØA 28 8D
                       Ø9 28 14
2858:20 8D 30 20 2D 2A
                       CE 61
2860:03 DØ Ø9 AD 62 Ø3
                       8D 61 FD
2868:03 20 F7 2A CE ØD
                       28
                          DØ
                             AF
2870:09 AD ØE 28 8D ØD
                       28 2Ø Ø6
2878:F7 30 AD 0D 28 C9 0A B0 84
2880:0F AD 66 03 C9 01
                       DØ Ø8 BC
2888:AD 11 FF
              29 4F 8D
                       11 FF
                             59
2890:CE ØF 28 DØ Ø9 AD
                       1Ø 28 65
2898:8D ØF 28 2Ø 4Ø 2D CE 18 E6
28AØ:28 DØ Ø9 AD 19
                    28
                       8D 18 D1
28A8:28 20 DD 37 20 EE
                       28 CE 2Ø
28BØ:57 Ø3 DØ 88 CE 54
                       ØЗ
                          20 FD
28B8:6E 29 AD 54 Ø3 FØ
                       Ø8 AD 1F
28CØ:58 Ø3 FØ Ø3 4C
                   3C
                       28 A9 99
28C8:00 8D 11 FF A2 17 A0 08 59
28DØ:18 20 FØ FF A9 BD AØ 37 1Ø
28D8:20 08 34
              2Ø 2D 2A 2Ø
                          6E
                             84
28EØ:29 2Ø FC 29 2Ø E4 FF C9 5E
```

28E8:ØD DØ F9 4C 22 28 A2 ØØ 28FØ:CA DØ FD 6Ø 18 6D 52 Ø3 28F8:8D 52 Ø3 AD 53 Ø3 69 ØØ 59 2900:8D 53 03 AD 63 03 D0 21 13 2908:AD 52 03 38 E9 F4 8D 04 2910:28 AD 53 Ø3 E9 Ø1 ØD Ø4 ED 2918:28 90 ØE AD 54 Ø3 18 69 87 2920:32 8D 54 Ø3 A9 Ø1 8D 63 79 2928:03 4C 6E 29 8D Ø3 28 AD E5 293Ø:52 Ø3 38 ED Ø3 28 8D 52 78 2938:03 AD 53 03 E9 ØØ 8D 53 CF 2940:03 BØ Ø8 A9 ØØ 8D 52 Ø3 B9 2948:8D 53 Ø3 4C 6E 29 18 6D 11 2950:58 Ø3 C9 24 90 02 A9 23 0E 2958:8D 58 Ø3 6Ø 8D Ø4 28 AD 68 296Ø:58 Ø3 38 ED Ø4 28 BØ Ø2 **A9** 2968:A9 ØØ 8D 58 Ø3 6Ø 8A 48 BD 2970:98 48 A9 92 20 D2 FF A9 75 2978:05 20 D2 FF A2 Ø6 AØ ØØ 1E 2980:18 20 FØ FF AE 52 Ø3 AD 2988:53 Ø3 2Ø 13 34 A2 ØA AØ **5B** 62 2990:00 18 20 F0 FF AE 54 Ø3 2998:A9 ØØ 2Ø 13 34 AØ ØØ AD C6 29AØ:54 Ø3 C9 19 DØ Ø2 AØ F1 6A 29A8:AE 56 Ø3 DØ Ø5 8C 19 FF E1 29BØ:DØ Ø3 8C 2Ø DØ A9 12 2Ø 29B8:D2 FF A2 12 AØ Ø2 18 2Ø 47 29CØ:FØ FF AD 46 Ø3 ØA ØA 18 12 29C8:69 49 A8 2Ø D2 FF C8 98 F9 29DØ:8D Ø4 28 2Ø D2 FF A9 D9 **B5** 29D8:AØ 37 2Ø Ø8 34 AC Ø4 28 52 29EØ:C8 98 2Ø D2 FF **C8** CØ 60 F3 29E8:DØ Ø4 38 E9 3E A8 98 2Ø 3Ø 29FØ:D2 FF A9 92 20 D2 FF 68 BF 29F8:A8 68 AA 60 AD 5C 03 38 32 2AØØ:ED 52 Ø3 8D Ø3 28 AD 5D 8A 2AØ8:Ø3 ED 53 Ø3 ØD Ø3 28 BØ 69 2A10:0B A0 01 B9 52 Ø3 99 5C FB 2A18:03 88 10 F7 A2 ØE AØ ØØ 2Ø 2A20:18 20 FØ FF AE 5C Ø3 AD 41 2A28:5D Ø3 4C 13 34 AD 5A Ø3 **B6** 2A3Ø:18 69 C4 85 Ø4 AD 5B Ø3 6C 2A38:69 Ø3 85 Ø5 AE 58 Ø3 E8 C8 2A40:A0 00 A9 BC CA F0 02 1Ø 14 2A48:02 A9 20 91 Ø4 2Ø 3Ø 2D 53 2A50:AD 56 03 D0 02 A9 71 91 A9 2A58:02 C8 C0 23 D0 E4 60 AD B2 2A60:4A 03 D0 3A CE 4E 03 F0 FE 2A68:01 6Ø 20 EC 2A 20 FB 2F 21 2A7Ø:29 Ø7 18 69 Ø7 8D 4C Ø3 BE 2A78:A9 Ø3 8D 4B Ø3 EE 4A Ø3 34

2A8Ø:A2	Ø4	2Ø	FΒ	2F	29	ØЗ	C9	D8
2A88:03	FØ	F7	A8	В9	E9	2A	A8	96
2A90:8C	4F	ØЗ	18	2Ø	FØ	$\mathbf{F}\mathbf{F}$	Α9	4F
2A98:38	ΑØ	37	2Ø	Ø8	34	AD	4C	D2
2AAØ:03	FØ	29	CE	4C	ØЗ	DØ	C1	96
2AA8:A2	Ø4	AC	4F	ØЗ	18	2Ø	FØ	83
2ABØ:FF	Α9	ØØ	8D	59	ØЗ	A2	5A	BE
2AB8:AØ	37	2Ø	FB	2F	1Ø	Ø9	Α9	64
2ACØ:01	8D	59	ØЗ	A2	76	ΑØ	37	BB
2AC8:8A	2Ø	Ø8	34	CE	4B	ØЗ	DØ	29
2ADØ:98	Α9	ØØ	8D	4A	ØЗ	A2	Ø4	5C
2AD8:AC	4F	ØЗ	2Ø	A7	35	AD	59	8Ø
2AEØ:03	FØ	Ø5	Α9	ØA	2Ø	5C	29	ЕØ
2AE8:6Ø	ØD	17	21	2Ø	FB	2F	29	1E
2AFØ:1F	Ø9	2Ø	8D	4E	ØЗ	6Ø	AD	ΕØ
2AF8:5E	ØЗ	C9	ØВ	FØ	17	C9	ØA	A8
2BØØ:DØ	12	A9	ØØ	8D	5F	ØЗ	A9	12
2BØ8:Ø1	8D	6Ø	Ø3	EE	5E	Ø3	A9	1F
2B1Ø:65	8D	62	Ø3	6Ø	AD	5A	Ø3	6A
2B18:18	69	D8	85	Ø4	AD	5B	Ø3	D8
2B2Ø:69	Ø2	85	Ø5	AC	5F	Ø3	A9	3F
2B28:2Ø	91	Ø4	C8	91	Ø4	AD	5F	57
2B3Ø:Ø3	18	6D	6Ø	Ø3	8D	5F	Ø3	Dl
2B38:FØ	29	C9	ØE	FØ	25	A2	øø	CC
2B4Ø:A8	AD	6ø	ø3	1ø	Ø2	A2	ø2	62
2B48:BD	69	2B	91	Ø4	C8	BD	6A	7F
2B5Ø:2B	91	Ø4	2Ø	3Ø	2D	AD	56	ØВ
2B58:Ø3	DØ	Ø2	A9	71	91	Ø2	88	9D
2B6Ø:91	Ø2	6Ø	A9	øø	8D	5E	Ø3	9C
2B68:6Ø	1B	1C	1D	1E	AC	47	Ø3	40
2B7Ø:B1	Ø4	C9	85	90	31	C9	89	98
2B78:BØ	2D	38	E9	85	AA	BD	FB	66
2B8Ø:2C	8D	Ø3	28	A5	Ø4	38	ED	CE
2B88:Ø3	28	85	Ø4	A5	Ø5	E9	ØØ	7Ø
2B90:85	Ø5	A2	ØØ	20	BØ	2C	A9	Ø5
2B98:ØA	2Ø	F4	28	AD	5E	Ø3	C9	D3
2BAØ:ØA	BØ	Ø3	EE	5E	Ø3	6Ø	C9	Ø1
2BA8:84	FØ	Ø8	C9	89	9Ø	Ø5	C9	7D
2BBØ:8D	BØ	Ø1	6Ø	C9	ΑØ	FØ	4C	1F
2BB8:C9	A2	BØ	48	C9	8D	90	44	21
2BCØ:AD	47	Ø3	38	E9	13		BD	52
2BC8:D2	2C	18	6D	5Ø	Ø3	AA C9	Ø5	94
2BC0:D2	Ø3	38	E9	Ø5	AA		3C	94 6Ø
2BD8:03	29	36 7F				BD		
2BEØ:DØ	ØA	CE	4A 46	4A Ø3	CD DØ	46 1Ø	Ø3 A9	A8 85
2BE8:23	2Ø	4E	29					
				A9	Ø5	8D	46	F7
2BFØ:03 2BF8:0A	20	7Ø	38	4C	75	2C	A9	9C
	2Ø	F4	28	A9	1C	9D	3C	B2
2CØØ:03	4C	75 20	2C	C9	66	DØ	Ø8	EF
2CØ8:A9	ØA	2Ø	2C	29	4C	75	2C	10
2C10:C9	A2	9Ø	1A	C9	В4	ВØ	16	42

2C18:C9 AB BØ Ø8 A9 64 2Ø 2C 22 2C2Ø:29 4C 75 2C A9 ØØ 8D 59 53 2C28:03 A9 19 2Ø F4 28 C9 1B 88 2C3Ø:9Ø 26 C9 1F BØ 22 AD 60 4F 2C38:Ø3 49 FF 18 69 Øl 8D 6Ø BØ 2C4Ø:03 AD 62 Ø3 38 E9 14 3Ø C3 2C48:03 8D 62 Ø3 A9 65 38 ED 43 2C5Ø:62 ØЗ 20 F4 28 4C 75 2C 77 2C58:C9 B6 DØ 19 A9 ØØ 8D 65 BC 2C60:03 A9 01 8D 66 ØЗ EE 64 1F 2C68:03 AD 64 Ø3 C9 ØЗ 9Ø Ø5 EA 2C7Ø:A9 ØØ 8D 64 Ø3 ΑE 16 28 BC 2C78:EE 16 28 A5 Ø4 9D C3 3B 86 2C8Ø:A5 Ø5 9D D7 3B AD 47 Ø3 4Ø 2C88:9D EB 3B B1 Ø4 C9 1B 9Ø 3B 2C9Ø:06 C9 1F BØ Ø2 A9 2Ø 9D E1 2C98:FF 3B 2Ø 3Ø 2D B1 Ø2 9D 98 2CAØ:13 3C AD 56 Ø3 DØ Ø2 A9 B5 91 Ø2 A9 84 2CA8:71 91 Ø4 6Ø CB 2CBØ:AC 47 Ø3 BD DB 2C 91 Ø4 24 2CB8:C8 E8 BD DB 2C 91 Ø4 E8 BD 2CCØ:98 18 69 27 A8 BD DB 2C 2B 2CC8:91 Ø4 E8 C8 BD DB 2C 91 DB 2CDØ:04 6Ø ØØ ØØ ØØ Ø1 Ø1 Ø1 4A 2CD8:02 Ø2 Ø2 89 8A 8B 8C 8D B4 2CEØ:8E 8F 9Ø 91 92 93 94 95 31 2CE8:96 97 98 99 9A 9B 9C 9D 39 2CFØ:9E 9F A1 66 66 66 66 2Ø D4 20 20 2CF8:2Ø ØØ Ø1 28 29 AE 17 2DØØ:16 28 FØ 23 CA BD C3 3B CF 2DØ8:85 Ø4 BD D7 **3B** 85 Ø5 BC 12 2D10:EB 3B BD FF 3B 91 Ø4 2Ø 2F 2D18:30 2D BD 13 3C 91 Ø2 CA B5 2D20:10 E3 A9 00 8D 16 28 **AD 73** 2D28:11 FF 29 1F 8D 11 $\mathbf{F}\mathbf{F}$ 6Ø 33 2D3Ø:A5 Ø4 18 6D 14 28 85 Ø2 86 2D38:A5 Ø5 6D 15 85 28 ØЗ 6Ø 63 2D40:20 4C 2E 4A BØ ØD AE 11 5Ø 2D48:28 EØ 1Ø FØ Ø6 EE 11 28 36 2D5Ø:2Ø 18 2E 4A BØ ØD AE 11 53 2D58:28 EØ Ø2 FØ Ø6 CE 11 28 Ø4 2D60:20 18 2E 4A BØ 14 48 AD 4F 2D68:47 Ø3 FØ ØD A2 ØØ 2Ø DB 47 47 Ø3 2D70:2D CE **A2** Ø4 2Ø DB 6F 2D78:2D 68 4A BØ 16 48 AD 47 4C 2D80:03 C9 1F F0 ØD A2 ØØ 2Ø D4 2D88:DB 2D EE 47 Ø3 A2 Ø4 2Ø 39 2D90:DB 2D 68 4A ВØ 3F AD 17 CA 2D98:28 DØ 34 AD 58 ØЗ FØ 2F 2DAØ:A9 Ø1 2Ø 5C 29 2Ø 33 2E 38 2DA8:AD 5A Ø3 18 69 57 85 Ø4 ØA

2DBØ:AD 5B Ø3 69 ØØ 85 Ø5 AE 7E 2DB8:11 28 FØ 1Ø A5 Ø4 18 69 9B 2DCØ:28 85 Ø4 A5 Ø5 69 ØØ 85 BE 2DC8:05 CA DØ FØ 20 6D 2B A9 38 2DDØ:Ø1 8D 17 28 6Ø A9 ØØ 8D AB 2DD8:17 28 60 AD 5A 03 18 69 28 2DEØ:FF 85 Ø4 AD 5B ØЗ 69 Ø2 B3 2DE8:85 Ø5 AC 47 Ø3 BD 10 2E AE 2DFØ:91 Ø4 E8 98 18 69 28 A8 1B 2DF8:BD 10 2E 91 04 E8 98 18 22 2E 91 Ø4 6C 2EØØ:69 28 A8 BD 1Ø 2EØ8:E8 C8 BD 10 2E 91 Ø4 6Ø E3 2E10:A0 A0 A0 A0 80 81 82 83 95 99 FF 23 96 2E18:48 A9 FF AØ FF 2E20:C8 CØ 10 FØ 09 CC 11 28 E7 2E28:DØ F3 A9 96 DØ EF 2Ø 6E 2E3Ø:2E 68 6Ø AD 56 Ø3 DØ Ø9 ØE 2E38:AD 11 FF Ø9 4Ø 8D 11 FF 9A 2E40:60 A9 80 8D 04 D4 A9 81 68 2E48:8D Ø4 D4 6Ø AD 56 Ø3 FØ CA 2E50:04 AD 00 DC 60 A9 FD 8D 1B 2E58:08 FF EA EA AD 08 FF 8D DF 2E60:03 28 29 80 08 AD 03 28 9A 2E68:28 DØ Ø2 29 EF 60 AD 5A 96 2E70:03 18 69 77 85 Ø2 AD 5B E3 ØØ 85 2E78:03 69 ØЗ AØ ØØ A2 46 2E80:00 A9 20 EC 11 28 DØ Ø2 E6 2E88:A9 1F 91 Ø2 A5 Ø2 18 6D A6 2E90:14 28 85 FC A5 Ø3 6D 15 AA 2E98:28 85 FD AD 56 Ø3 DØ Ø2 67 2EAØ:A9 71 91 FC 2Ø E9 3Ø E8 22 2EA8:EØ 11 DØ D5 6Ø AD 56 Ø3 9A 2EBØ:FØ lE A9 ØØ AØ 17 99 ØØ D6 2EB8:D4 88 10 FA A9 0F 8D 18 10 2ECØ:D4 A9 19 8D 13 D4 A9 15 42 2EC8:8D Ø5 D4 A9 28 8D Ø1 D4 BØ 2EDØ:A9 ØØ 8D Ø8 28 8D 16 28 FF 2ED8:8D 5E Ø3 A9 7D 8D ØB 28 EE 2EEØ:8D ØC 28 A9 Ø5 8D ØA 28 41 2EE8:8D Ø9 28 8D 46 Ø3 8D 66 EB 2EFØ:03 A9 41 8D ØD 28 8D ØE 6C 2EF8:28 A9 ØF 8D ØF 28 8D 1Ø D2 2FØØ:28 A9 FA 8D 18 28 8D 19 AA 2FØ8:28 A9 ØA 8D 47 Ø3 8D 11 2F10:28 A2 04 20 DB 2D A9 FF 94 2F18:8D 5Ø Ø3 A9 ØØ 8D 4A Ø3 2F2Ø:8D 52 Ø3 8D 53 Ø3 8D 63 2F28:03 A9 00 8D 64 Ø3 A9 FF CD 2F3Ø:8D 65 Ø3 A9 65 8D 61 Ø3 DØ 2F38:8D 62 Ø3 A9 C8 8D 54 Ø3 19 2F40:A9 23 8D 58 03 20 EC 2A 10

2F48:20 6E 29 60 AD 56 03 D0 2F50:03 4C D7 2F 78 A9 33 85 2F58:Ø1 2Ø 76 2F Α9 37 85 Ø1 37 2F60:58 A9 18 8D 18 DØ A9 D8 61 2F68:8D 16 DØ A9 ØF 8D 22 DØ 8B 2F7Ø:A9 Ø2 8D 23 DØ 6Ø A2 Ø7 5C 2F78:AØ ØØ A9 ØØ 85 Ø2 85 Ø4 9F 2F80:A9 DØ 85 Ø3 A9 20 85 Ø5 A6 2F88:B1 Ø2 8E Ø3 28 EØ Ø4 ВØ BF 2F90:07 AE 56 03 D0 02 49 FF **3A** 2F98:AE Ø3 28 91 88 DØ Ø4 E8 F9 2FAØ:E6 Ø3 E6 Ø5 ΕØ Ø4 DØ Ø9 22 2FA8:AD 56 Ø3 DØ Ø4 Α9 DØ 85 CE 2FBØ:03 CA 10 D4 A0 ØØ B9 9B A6 2FB8:38 99 ØØ 24 В9 93 39 99 Ø4 2FCØ:F8 24 B9 B3 3A 99 DØ 21 12 2FC8:88 DØ EB AØ 1F B9 93 3A 68 2FDØ:99 D8 2Ø 88 10 F7 60 AD 8D 2FD8:12 FF 29 FB 8D 12 $\mathbf{F}\mathbf{F}$ AD 87 2FEØ:13 FF 29 Ø3 Ø9 2Ø 8D 13 15 2FE8:FF A9 D8 8D Ø7 FF A9 62 93 2FFØ:8D 17 FF A9 41 8D 16 FF E2 2FF8:4C 76 2F AD Ø7 28 ØA ØA D2 3000:38 6D 07 28 8D Ø7 28 6Ø 74 2C EE 3008:20 FF Ø8 28 AD 5A 83 3010:03 18 69 70 85 Ø2 85 Ø4 6F 3018:AD 5B 03 69 01 85 Ø3 85 C6 3020:05 A9 03 8D 03 28 A2 Ø2 A6 3028:A0 ØE B1 02 C9 85 9Ø Ø4 3C 3Ø3Ø:C9 89 9Ø Ø2 A9 20 C8 91 FA ED C8 A9 3038:02 88 88 10 2Ø 3040:91 02 2Ø E9 3Ø CA DØ EØ BB 3048:20 E9 30 CE 03 28 DØ D6 57 3050:AD 08 28 4A B0 33 20 FB C1 3Ø58:2F 3Ø 2E 2Ø FB 2F 29 Ø3 16 3060:C9 03 F0 25 AA A5 Ø4 18 E2 3068:7D 8A 30 85 Α5 Ø4 Ø5 69 B2 3070:00 85 05 ΑØ ØØ A9 85 91 3078:04 C8 A9 86 91 Ø4 ΑØ 28 BØ 3080:A9 87 91 Ø4 C8 A9 88 91 99 60 ØØ FØ 3088:04 78 AD Ø8 28 C4 55 A2 3090:4A BØ Ø9 AD 5A Ø3 CD 3098:18 69 E6 85 Ø4 AD 5B Ø3 30A0:69 02 85 05 Ø4 **A5** 38 E9 CE 3ØA8:28 85 Ø2 A5 Ø5 E9 ØØ 85 6E 3ØBØ:03 AØ 01 Ø2 ΕØ Bl Ø9 DØ 6C 30B8:0B C9 85 D0 Ø7 48 A9 Ø5 80 2C 29 68 3ØCØ:20 C9 84 DØ Ø2 EB 30C8:A9 20 91 04 88 10 E4 A5 6C 30D0:04 38 E9 28 85 Ø4 A5 Ø5 8D 30D8:E9 00 85 05 CA DØ C5 ΑØ

30E0:01	Α9	2Ø	91	Ø2	88	10	F9	95
3ØE8:6Ø	Α5	Ø2	18	69	28	85	Ø2	9D
3ØFØ:A5	Ø3	69	ØØ	85	Ø3	6Ø	AD	в8
30F8:5A	Ø3	18	69	FD	85	Ø2	AD	98
3100:5B	Ø3	69	Ø1	85	Ø3	A9	Ø2	9B
31Ø8:8D	Ø6	28	AD	Ø6	28	8D	Ø3	81
3110:28	Α2	Ø2	ΑD	Ø3	28	18	69	9C
3118:28	A8	8D	Ø4	28	Bl	Ø2	AC	63
3120:03	28	91	Ø2	AD	Ø4	28	8D	BB
3128:03	28	CA	DØ	E6	A8	A2	AØ	3C
3130:20	FB	2F	C9	32	ВØ	Ø2	A2	1F
					Ø6		1Ø	
3138:B5	8A	91	Ø2	CE		28		59
3140 : CA	CE	66	ØЗ	FØ	Ø1	6Ø	AD	B2
3148:64	Ø3	C9	Ø2	DØ	ØЗ	4C	ED	10
3150:31	A8	ØA	AA	BD	7A	32	85	23
3158:04	BD	7B	32	85	Ø5	В9	AF	22
3160:33	CD	65	Ø3	ВØ	Ø5	Α9	$\mathbf{F}\mathbf{F}$	99
3168:8D	65	Ø3	EE	65	Ø3	AD	65	32
3170:03	ØA	A8	Bl	Ø4	38	E9	Ø1	DC
3178:ØA	AE	56	Ø3	DØ	1D	AA	BD	
								94
318Ø:F6	31	8D	ØE	FF	AD	12	FF	18
3188:29	FC	1D	F7	31	8D	12	FF	C5
3190:AD	11	$\mathbf{F}\mathbf{F}$	Ø9	10	8D	11	$\mathbf{F}\mathbf{F}$	77
3198:4C	В6	31	AA	BD	39	32	4A	21
31AØ:08	8D	ØF	D4	BD	38	32	28	F4
31A8:6A	8D	ØE	D4	Α9	1Ø	8D	12	6D
31BØ:D4	A9	11	8D	12	D4	AD	5A	7C
31B8:Ø3	18	69	9A	85	Ø2	AD	5B	64
31CØ:Ø3			85					
	69	Ø2		Ø3	98	48	A9	4C
31C8:B6	ΑØ	Ø8	91	Ø2	88	1Ø	FB	17
31DØ:8A	4A	4A	4A	C9	Ø8	9Ø	Ø2	8A
31D8:A9	Ø7	A8	Α9	B8	91	Ø2	C8	5A
31EØ:A9	В9	91	Ø2	68	8 A	C8	Bl	Ø2
31E8:Ø4	8D	66	ØЗ	6Ø	AD	11	FF	89
31FØ:29	4F	8D	11	FF	6Ø	54	Ø2	AA
31F8:6C	Ø2	83	Ø2	98	Ø2	AD	Ø2	CC
3200:C0	Ø2	D2	Ø2	E3	Ø2	F3	Ø2	DØ
3208:02	Ø3	1Ø	Ø3	1E	Ø3	2A	Ø3	B4
3210:36	Ø3	42	Ø3	4C	Ø3	56	Ø3	E6
3218:60	ØЗ	69	Ø3	71	Ø3	79	Ø3	58
3220:81	ØЗ	88	ØЗ	8F	ØЗ	95	ØЗ	FD
3228:9B	ØЗ	Al	ØЗ	Α6	ØЗ	AB	ØЗ	1B
323Ø:BØ	ØЗ	B4	ØЗ	В9	ØЗ	BD	ØЗ	CC
3238:87	21	86	23	A2	25	DF	27	3C
324Ø:3E	2A	Cl	2C	6B	2F	3C	32	ØC
3248:39	35	63	38	BE	3B	4B	3F	3F
3250:ØF	43	ØC	47	45	4B	BF	4F	
								29
3258:7D	54	83	59	D6	5E	79	64	1E
3260:73	6A	C7	7Ø	7C	77	97	7E	88
3268:1E	86	18	8E	8B	96	7E	9F	BC
327Ø:FA	A8	Ø6	В3	AC	BD	F3	C8	85

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3278:E6 D4 8Ø 32 Ø2 33 AE 33 26
328Ø:19 Ø1
           1B Ø2
                 19
                    Ø1
                       1B Ø2 3A
3288:19 Ø2 16 Ø1
                 17 Ø2
                       16 Ø1 BA
3290:17 02 16 02
                 14 Ø1
                        16 Ø2 B6
3298:14 Ø1
           16 Ø2
                 14 Ø2
                       ØF Ø8 F8
32AØ:16 Ø1
           14 Ø2
                 13 Ø1
                       16 Ø2 BD
32A8:14 Ø2
           19 Ø8
                 12
                    Ø1
                        16 Ø2 FD
32BØ:19 Ø1
           1D Ø2
                 1B Ø2
                       19 Ø8 CØ
32B8:19 Ø1 1B Ø2
                 19 Ø1
                       1B Ø2 72
                 17 Ø2
32CØ:19 Ø2 16 Ø1
                        16 Ø1 F2
32C8:17 Ø2 16 Ø2
                 14 Ø1
                       16 Ø2 EE
32DØ:14 Ø1 16 Ø2 14 Ø2 ØF Ø8 31
32D8:14 Ø1 16 Ø2
                 14 Ø1
                       19 Ø2 43
32EØ:16 Ø2 14 Ø1
                 16 Ø2
                       14 Ø1 45
32E8:19 Ø2 16 Ø2
                 14 Ø1
                       16 Ø2 1Ø
32FØ:14 Ø1 19 Ø2
                 14 Ø2
                       12 Ø2 B1
32F8:ØD Ø1 ØF Ø2
                 ØD Ø1
                       ØA Ø2 A8
3300:06 04 09 01
                 10 01
                       Ø9 Ø1 33
33Ø8:ØD Ø1 1Ø Ø2
                 Ø8 Ø1
                        10 01 BC
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                 10 05 09 01 D3
3318:10 01 09 01
                 ØD Ø1
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3320:08 01 10 01
                 Ø8 Ø1 ØB Ø1
                              38
3328:10 03 04 02
                 Ø5
                     Ø4 Ø4 Ø2
3330:04 02 05 04
                 Ø4 Ø4 Ø9 Ø1
3338:09 Ø1 ØC Ø1
                 15 Ø1 Ø9 Ø1 B4
3340:09 Ø1 ØC Ø1
                 15
                     Ø1
                       15 Ø1 D4
3348:15 Ø1 18 Ø1
                 21 Ø1
                       15 Ø1 C4
335Ø:15 Ø1 18 Ø1
                 21 Ø1
                       21 Ø2 E5
3358:21 Ø2 21 Ø2
                 21 Ø1
                       21 Ø2 65
3360:1C Ø1 1E Ø1
                 19 Ø1
                       1C Ø1 EE
3368:1E Ø2 15 Ø2
                 17 Ø1
                       19 Ø1
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           17 Ø1
                 19 Ø1
                       15 Ø1
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                       12 Ø1
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3390:ØD Ø1 1Ø Ø1
                 12 Ø2 Ø9 Ø2
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3398:ØB Ø1 ØD Ø1
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                       ØB Ø1
33AØ:ØD Ø1 Ø9 Ø1
                 ØB Ø1
                        ØD Ø1
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33A8:09 Ø1 ØB Ø2
                 Ø9 Ø5
                       ØØ 3F FØ
33BØ:54 ØØ AD
              28
                 Ø3 C9 ED FØ
33B8:2B A9 ØØ 8D 12
                     28 A9 Ø8
                              84
           28 A9
                 ØØ
33CØ:8D 13
                     8D
                       14 28 D8
                 28 A9 Ø3 8D Cl
33C8:A9 FC 8D 15
33DØ:10 FF A9 C8 8D ØF FF A9
33D8:0F 8D 11 FF A9 00
                       A2 ØØ DE
33EØ:AØ ØC DØ
              1A A9-ØØ
                       8D 12 DØ
33E8:28 A9 D8 8D 13 28 A9 ØØ
                              4E
33FØ:8D 14 28 A9 D4 8D 15 28 F1
33F8:A9 Ø1 A2 ØØ
                 AØ Ø4 8D 56 4F
3400:03 8E 5A 03 8C 5B 03 60 41
3408:AE 56 03 F0 03 4C 1E AB FD
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3410:4C	88	9Ø	8E	ØЗ	28	8D	Ø4	93
3418:28	ΑØ	FE	C8	C8	AD	Ø3	28	54
3420:38	F9	53	34	AD	Ø4	28	F9	98
3428:54	34	ВØ	EF	98	4A	8D	Ø5	EA
3430:28	A9	Ø4	38	ED	Ø5	28	AA	99
3438:FØ	Ø8	A9	2Ø	20	D2	FF	CA	69
3440:DØ	F8	AE	Ø3	28	AD	Ø4	28	7D
3448:AC	56	Ø3	FØ	Ø3	4C	CD	BD	AE
345Ø:4C	5F	A4	ØA	ØØ	64	ØØ	E8	66
3458:03	1Ø	27	FF	FF	A9	93	2Ø	19
3460:D2	FF	AD	12	28	85	Ø4	AD	16
3468:13	28	85	Ø5	A9	ØF	AE	56	A2
3470:03	DØ	Ø2	A9	6F	A2	Ø4	ΑØ	18
3478:00	91	Ø4	88	DØ	FB	E6	Ø5	97
3480:CA	ÐØ	F6	A9	ØØ	AE	56	Ø3	66
3488:FØ	Ø8	8D	2Ø	DØ	8D	21	DØ	EE
3490:FØ	Ø6	8D	15	FF	8D	19	FF	5E
3498:A9	13	8D	ø3	28	AE	ø3	28	A6
34AØ:AØ	Ø7	18	20	FØ	FF	A9	CB	C6
34A8:AØ	35	20	Ø8	34	EE	Ø3	28	BE
34BØ:AD	Ø3	28	C9	17	DØ	E6	A2	BE
34B8:17	ΑØ	Ø3	18	2ø	FØ	FF	A9	25
34CØ:EF	ΑØ	35	20	Ø8	34	A2	Ø3	4B
34C8:AØ	Ø7	18	2Ø	FØ	FF	A9	1ø	33
34DØ:8D	ø3	28	A9	16	ΑØ	36	20	2Ø
34D8:08	34	CE	ø3	28	DØ	F4	A2	6D
34EØ:00	ΑØ	Ø5	18	20	FØ	FF	A9	Ø2
34E8:2A	ΑØ	36	20	Ø8	34	A9	11	CC
34FØ:8D	Ø3	28	AE	Ø3	28	ΑØ	Ø8	D2
34F8:18	2Ø	FØ	FF	A9	1B	ΑØ	36	C4
3500:20	Ø8	34	AD	Ø3	28	38	E9	FØ
3508:03	8D	Ø3	28	C9	ØA	ВØ	E3	F5
351Ø:A2	ØB	ΑØ	19	18	20	FØ	FF	57
3518:A9	5C	AØ	36	20	Ø8	34	A2	12
3520:ØB	AØ	1A	18	20	FØ	FF	A9	6B
3528:78	ΑØ	36	20	Ø8	34	A2	ØC	22
3530:AØ	1D	18	2Ø	FØ	FF	A9	F6	Ø9
3538:AØ	36	2Ø	Ø8	34	A9	ØD	8D	F4
3540:Ø3	28	A2	Ø4	AC	Ø3	28	2Ø	AC
3548:A7	35	AD	Ø3	28	18	69	ØA	38
355Ø:8D	Ø3	28	C9	28	9Ø	EB	AD	EC
3558:5A	Ø3	85	Ø4	AD	5B	Ø3	85	Ø8
3560:05	AØ	Ø9	A2	3A	8A	91	Ø4	E3
3568:C8	E8	EØ	56	DØ	F7	ΑØ	31	CB
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3578:58	DØ	F7	ΑØ	4B	A2	59	8A	6E
3580:91	Ø4	C8	CA	EØ	57	DØ	F7	78
3588:A2	Ø4	AØ	ØØ	18	20	FØ	FF	7C
3590:A2	92	AØ	37	20	Ø8	34	A2	28
3598:13	AØ	Ø6	18	20	FØ	FF	A2 A9	65
35AØ:B2	AØ	35	20	Ø8	34	60	18	1 F

35A8:20 FØ FF A9 1C AØ 37 4C 18 35BØ:08 34 96 12 A9 11 9D 9D 8A 35B8:A9 2Ø 11 9D 9D 2Ø 9D A9 D2 35CØ:2Ø 11 9D 9D 9D 9D A9 2Ø E3 35C8:20 2Ø ØØ 96 12 20 20 2Ø 26 20 2Ø 20 20 2Ø 2Ø 35DØ:2Ø 2Ø 3B 35D8:2Ø 2Ø 2Ø 2Ø 2Ø 20 20 2Ø 43 35EØ:2Ø 20 20 2Ø 2Ø 2Ø 20 2Ø 4B 35E8:2Ø 2Ø 2Ø 2Ø 2Ø 2Ø ØØ 12 Ø5 35FØ:B7 B7 B7 В7 В7 В7 В7 в7 5B 35F8:B7 В7 В7 В7 в7 В7 В7 B7 63 3600:B7 B7 B7 В7 в7 B7 B7 B7 6C 36Ø8:B7 В7 В7 В7 В7 В7 В7 В7 74 3610:B7 B7 B7 В7 в7 ØØ 92 A5 41 3618:11 9D ØØ B8 B8 B8 B8 D2 362Ø:B8 B8 B8 B8 B8 B8 B8 B8 8C 3628:B8 ØØ 96 12 3D 3A 11 9D 77 3630:9D 3B 92 12 3D 3A 11 9D 4Ø 3638:9D 3B 3E 92 В7 **B7 B7** B7 F6 3640:B7 B7 B7 В7 в7 в7 В7 B7 AC 3648:B7 B7 B7 B7 B7 B7 B7 B7 B4 365Ø:B7 B7 B7 B7 В7 В7 В7 В7 BC 3658:B7 B7 B7 ØØ Ø5 12 A9 5A 11 3660:9D 20 11 9D 2Ø 11 9D 2Ø 4Ø 3668:11 9D 2Ø 2Ø 11 9D 11 Ø7 9D 3670:20 20 11 9D 9D 2Ø 2Ø ØØ 9E 3678:1F 12 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø EØ 3680:20 20 20 11 9D 9D 9D 9D 56 3688:9D 9D 9D 9D 2Ø 2Ø 2Ø 86 3690:20 20 20 20 20 2Ø 11 9D 5C 3698:9D 9D 9D 9D 9D 9D 9D 9D Ø5 36AØ:2Ø 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø ØD 36A8:2Ø 11 9D 9D 9D 9D 9D 9D 33 36BØ:9D 9D 9D 2Ø 2Ø 2Ø 2Ø EA 36B8:20 20 20 20 11 9D 9D 9D 1B 36CØ:9D 9D 9D 9D 9D 2Ø 2Ø B4 36C8:2Ø 2Ø 2Ø 20 20 2Ø 2Ø 11 26 36DØ:11 9D 9D 9D 9D 9D 9D 9D F6 36D8:9D 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø Ø4 36EØ:2Ø 2Ø 11 9D 9D 9D 9D 9D 9D 36E8:9D 9D 9D 9D 2Ø 2Ø 2Ø 2Ø FA 2Ø 2Ø 36FØ:2Ø 20 20 00 05 12 98 36F8:2Ø 35 2Ø 11 9D 9D 9D 2Ø 96 3700:20 20 11 9D 9D 9D 35 20 70 3708:20 11 11 9D 9D 9D 9D 9D Ø3 371Ø:9D 36 36 36 36 36 36 36 32 3718:36 36 37 ØØ 9E 12 2Ø C2 56 3720:20 11 9D 9D 9D C3 DB C3 E7 3728:11 9D 9D 9D 2Ø C2 2Ø 11 71 3730:9D 9D 9D 92 20 2Ø 2Ø ØØ 73 3738:9E 12 DF 92 20 12 A9 11 4D

3740:9D	9D	9D	2Ø	92	2Ø	12	2Ø	F3
3748:11	9D	9D	9D	CD	92	2Ø	12	3F
375Ø:CE	11	9D	9D	9D	92	DF	20	ØF
3758:A9	ØØ	Ø5	12	23	24	25	11	62
376Ø:9D	9D	9D	26	27	28	11	9D	B4
3768:9D	9D	29	2A	2B	11	9D	9D	4B
377Ø:9D	92	2Ø	2Ø	2Ø	ØØ	Ø5	12	75
3778:2C	2D	2E	11	9D	9D	9D	2F	EC
3780:30	31	11	9D	9D	9D	32	33	4A
3788:34	11	9D	9D	9D	92	2Ø	2Ø	7A
3790:20	ØØ	1E	53	43	4F	52	45	49
3798:11	ĭĭ	11	11	9D	9D	9D	9D	43
37AØ:54	49	4D	45	11	11	11	11	89
37A8:9D	9D	9D	9D	48	49	47	48	19
37BØ:11	11	11	11	9D	9D	9D	9D	5B
37B8:43	41	52	44	ØØ	Ø5	5Ø	52	AE
37CØ:45	53	53	20	52	45	54	55	B8
37C8:52	4E	2Ø	54	4F	2Ø	5Ø	4C	25
37DØ:41	59	2Ø	41	47	41	49	4E	6E
37D8:00	11	9D	9D	ØØ	EE	5ø	Ø3	78
37EØ:AD	50	Ø3	C9	Ø5	DØ	Ø5	A9	56
37E8:00	8D	5Ø	Ø3	AD	5A	Ø3	18	E9
37FØ:69	82	85	Ø4	AD	5B	Ø3	69	EF
37F8:01	85	Ø5	2Ø	30	2D	AØ	Ø9	6C
3800:AD	56	Ø3	DØ	Ø2	A9	71	91	75
3808:02	88	10	FB	AØ	31	91	Ø2	4C
3810:88	CØ	27	DØ	F9	A9	øø	8D	EA
3818:05	28	A9	Ø3	8D	Ø4	28	AD	F4
3820:50	Ø3	8D	Ø3	28	AE	Ø3	28	85
3828:BD	3C	Ø3	10	Ø7	29	7F	9D	61
383Ø:3C	Ø3	A9	18	AA	AC	Ø5	28	7Ø
3838:20	B3	2C	AD	Ø5	28	18	69	68
3840:03	8D	Ø5	28	EE	Ø3	28	AD	3A
3848:03	28	C9	Ø5	DØ	Ø5	A9	ØØ	BB
385Ø:8D	Ø3	28	CE	Ø4	28	DØ	CD	6A
3858:20	FB	2F	29	Ø3	AA	BD	3C	CA
3860:03	C9	1C	FØ	Ø5	Ø9	8Ø	9D	42
3868:3C	Ø3	60	Ø4	Ø8	ØC	10	14	A8
3870:98	48	8A	48	AØ	Ø4	A9	ØØ	7D
3878:99	3C	Ø3	88	10	FA	ΑØ	Ø4	5F
3880:20	FB	2F	C9	Ø5	BØ	F9	AA	ØC
3888:BD	3C	Ø3	DØ	F3	В9	6B	38	E9
389Ø:9D	3C	Ø3	88	10	EA	68		
3898:68							AA	6F
38AØ:96	A8 96	6Ø 96	96 96	96	96 96	96	96	AF
38A8:96	96	96	_	96	96	96	96	11 E7
38BØ:55			95	55	95	95	95	F7
38B8:56	65	A9	6A	9A	6A	AA	6A	3F
38CØ:FF	55 7F	56	6C	FF	7F	7E	FE	35 47
		66	ØC	33	CØ	4C	73	47
38C8:4Ø	7F	7F	CØ	3Ø	CØ	D4	11	74
38DØ:11	Dl	D1	7F	7F	7F	7F	7F	E8

38D8:7F 7F 15 D1 D1 D5 D4 DØ Ø9 38EØ:DØ DØ 40 ØC ØØ CØ ØC 43 15 38E8:00 73 43 øø øø CØ C4 Ø1 2C 38FØ:11 D1 ØØ ЗØ 40 43 33 4C 23 38F8:ØF 3C 15 Dl 11 Ø4 CØ DØ AA 7F E7 3900:10 00 ØØ C3 99 99 8D EF 54 3908:81 99 99 FE FBFlFB7F FE FD 3910:DF BFFΒ F7 DF Fl 3918:8F DF 7F E7 C3 99 99 81 F1 99 FE 3920:99 7 F 99 93 87 87 4F 3928:93 99 FF FE FΒ FlFB EF 4A 3930:DF BF 7F FE FD FBF7 DF 12 3938:8F DF 7F 99 93 FF 87 87 ØC 3940:93 99 FE 7F 81 9D 9D 9D 16 3948:95 81 FΒ Fl FE FB FBEF E4 395Ø:DF BF7F FE FD FB F7 32 DF 3958:8F DF 7F 7F 81 9D 9D 9D CD 3960:95 81 FB 7F E1 F3 F3 F3 3968:F3 B3 83 FE FB F1FB EF 3970:DF BF 7F FE FD FB F7 DF 52 3978:8F DF 7F 7F E1 F3 F3 F3 4D 3980:F3 B3 83 FF 73 6D E3 6D 6D 3988:6D 33 FE FE FB F1 FB EF DD 3990:DF BF 7F FE FD FB F7 DF 72 3998:8F DF 7F FF FF FF FF FF BA 39AØ:FF FF FF FF 73 6D 6D 6D AC 39A8:6D 33 FE $\mathbf{F}\mathbf{F}$ 8Ø 8Ø 8Ø 8Ø Ø6 39BØ:8Ø 8Ø 8Ø FF 8Ø 8Ø 8Ø 8Ø 1B 39B8:80 80 8Ø $\mathbf{F}\mathbf{F}$ ØØ 63 F7 FF 19 \mathbf{FF} 39CØ:FF FF $\mathbf{F}\mathbf{F}$ Ø1 Ø1 81 81 C3 39C8:81 81 81 8Ø 84 83 81 81 4B 39DØ:81 81 81 FF FF FF ØØ 22 B6 39D8:22 Ø8 Ø8 81 91 El 41 4F 41 9F 39EØ:41 41 41 81 81 8Ø BF91 39E8:FF FF FF 41 3E 8Ø 7F 8Ø E2 39FØ:FF FF FF 41 41 81 79 7D F7 FF 8Ø 39F8:FF FF FF 8Ø 81 81 F5 3AØØ:81 81 81 FF 63 F7 88 8Ø 3AØ8:8Ø 8Ø 8Ø FF Ø1 81 C1 C1 4Ø 3AlØ:Cl Cl Cl 91 8F 81 81 81 2E FF FF ØØ 63 3A18:81 83 81 42 67 3A20:08 FF $\mathbf{F}\mathbf{F}$ C5 F9 41 41 41 8D 3A28:51 F9 Cl 8Ø 9F AØ CØ CØ C5 3A3Ø:CØ CØ FF $\mathbf{F}\mathbf{F}$ 7F BE 1C ØC 7Ø 3A38:04 00 FF 81 79 85 Ø3 Ø3 B1 FF FF E7 3A40:03 03 FF FF E7 AE 3A48:FF FF FF 63 Bl D8 EF F7 BB 3A5Ø:FB FD FE ØØ 8Ø СØ EØ FØ DB 3A58:F8 FC FE 10 8E C7 ΕØ FØ 7Ø 3A60:F8 FC FE **E3** 71 38 1F ØF 68 3A68:07 03 01 00 00 00 00 00 41

3A7Ø:ØØ ØØ 8Ø Ø1 ØØ ØØ ØØ ØØ Ø5 3A78:00 00 ØØ ØØ ØØ 18 3C 3C Ø2 3A8Ø:3C 3C ΕØ 7Ø 38 53 7E CØ 1C 3A88:ØE Ø7 ØЗ FF FF CØ CØ CØ 6B 3A9Ø:CØ CØ CØ ØØ ØØ ØØ ØF 1F EA F8 3A98:FF Ø8 ØØ ØØ ØØ ØØ 9Ø 29 3AAØ:FC 2Ø ØØ ØØ ØØ ØØ Ø9 1F CC 3AA8:3F Ø4 ØØ ØØ ØØ ØØ FØ F8 98 Ø2 4F 3ABØ:FF 10 00 ØØ ØØ Ø8 Ø2 3AB8:0B 2F BF Ø2 AA 25 ØØ ØØ ØØ 3ACØ:FF FE ΑE ØØ ØØ ØØ ØØ AA 75 3AC8:FF AA ØØ ØØ ØØ ØØ ØØ AA 92 ØØ. ØØ ØØ AA 9A 3ADØ:FF AA ØØ ØØ 3AD8:FE AA ØØ 14 15 15 15 55 35 3AEØ:54 5Ø ØØ 55 40 45 51 54 F6 3AE8:40 15 ØØ 55 51 44 40 44 78 55 ØØ 55 45 45 45 45 41 3AFØ:44 55 55 40 44 44 44 3AF8:4Ø ØØ 18 3BØØ:4Ø 55 ØØ 55 40 44 44 44 21 3BØ8:4Ø 55 ØØ 55 45 41 40 44 3D 55 ØØ 5Ø 14 15 15 15 B7 3B1Ø:45 3B18:14 5Ø ØØ 15 5Ø 51 54 55 C3 3B20:50 15 ØØ 55 11 51 5Ø 11 D8 3B28:11 55 ØØ 55 10 11 11 11 C9 55 55 11 51 3B3Ø:1Ø ØØ 10 11 11 55 55 10 14 6E 3B38:10 ØØ 14 14 55 1Ø 3B40:14 55 ØØ 51 51 51 25 3B48:50 55 ØØ 55 11 11 11 11 91 55 3B5Ø:1Ø 55 ØØ 10 14 14 14 86 55 ØØ 51 15 55 55 3B58:14 51 3D 40 40 5Ø 5Ø 5Ø 56 4E 3B6Ø:51 ØØ 3B68:56 16 ØØ ØØ ØØ ØØ ØØ AA 3A 3B7Ø:FF ØØ ØØ ØØ ØØ ØØ AA 3C AA ØØ ØØ ØØ ØØ AA 44 3B78:FF AA ØØ 3B80:FF AA ØØ ØØ ØØ ØØ 8Ø AA 4D 3B88:FF BF BA ØØ ØØ Ø8 2Ø 8Ø 27 3B90:E0 F8 FE BE BE BE BE BE ΑE 3B98:BE BE AA В8 20 ØØ ØØ ØØ FF 3BAØ:00 ØØ ØØ BE BE BE BE BE 3Ø 3BA8:BE BE AA 2E Ø8 ØØ ØØ ØØ **A6** 3BBØ:00 ØØ ØØ в8 2Ø ØØ ØØ ØØ **B3** 3BB8:00 00 ØØ BE BE BE BE BE 48 3BCØ:BE BE AA ØØ ØØ ØØ ØØ ØØ 9B

Program 3 Prisonball

Once you have a copy of "MLX" typed in and saved to disk or tape, load and run it. When you run MLX, you'll be asked for a starting address and an ending address for the data you'll be entering. For "Prisonball," those are

Starting Address: 0801 Ending Address: 0F90

Be sure you save a copy (preferably more than one) of the finished program to tape or disk before you quit MLX.

Prisonball

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
Ø8Ø1:FF FF ØA ØØ 9E 32
                       3Ø 36 A6
Ø8Ø9:31 ØØ ØØ ØØ A9 ØØ 8D BA D4
Ø811:ØF 2Ø E4 ØD 2Ø BB ØA 2Ø 42
Ø819:CA ØD 2Ø 16 ØE 2Ø 39 ØE A8
Ø821:20 3F Ø9 AD BA ØF DØ Ø8 C8
Ø829:A9 Ø1 8D BA ØF 4C 65
                          Ø8
Ø831:CE FD Ø2 DØ ØC AD FE Ø2 8C
Ø839:8D FD Ø2 2Ø E9 ØC 2Ø BE 5Ø
Ø841:Ø8 CE FB Ø2 DØ ØC AD FC B7
Ø849:02 8D FB Ø2 20 C3 ØB 20 A3
Ø851:9B Ø9 2Ø E1 FF DØ D9 AD 38
Ø859:ØØ DC 2D Ø1 DC 29 1Ø DØ D2
Ø861:F6 4C 31 Ø8 AD ØØ DC
                          2D FA
Ø869:Ø1 DC 29 1F C9 1F DØ F4 A9
Ø871:A9 BØ 8D 14 Ø4 8D 16 Ø4 FB
Ø879:8D 17 Ø4 A9 Ø3 8D 15
                          DØ 7A
Ø881:A2 18 AØ ØC 18 2Ø FØ FF EØ
Ø889:A9 7F AØ ØF 2Ø 1E AB 78 9C
Ø891:A9 ØØ 85 C6 AD ØØ DC
Ø899:Ø1 DC 29 1Ø FØ ØB AD ØØ
Ø8A1:DC C9 7F FØ EF A9 ØØ FØ A8
Ø8A9:02 A9 Ø1 85 F7 ØA ØA ØA A3
Ø8B1:18 69 Ø8 8D FB Ø2 8D FC Ø2
Ø8B9: Ø2 58 4C 12 Ø8 A5 A2 C9 71
Ø8C1:3C DØ 37 A9 ØØ 85 A2 AD AE
Ø8C9:17 Ø4 C9 BØ FØ Ø6 CE
                          17 FE
Ø8D1:Ø4 4C FB Ø8 A9 B9 8D 17 5D
Ø8D9:Ø4 AD 16 Ø4 C9 BØ FØ Ø6 53
```

Ø8El:CE	16	Ø4	4C	FB	Ø8	Α9	В5	2D
Ø8E9:8D	16	Ø4	ΑD	14	Ø4	C9	ВØ	96
Ø8F1:DØ	Ø5	68	68	4C	65	Ø8	CE	16
Ø8F9:14	Ø4	ΑD	14	Ø4	C9	ВØ	DØ	85
Ø9Ø1:12	ΑD	16	Ø4	C9	B2	DØ	ØB	5Ø
Ø9Ø9:AD	17	Ø4	C9	ВØ	DØ	Ø4	EE	94
Ø911:2Ø	DØ	6Ø	Α9	ØØ	8D	2Ø	DØ	55
Ø919:6Ø	Α6	Ø6	BD	27	DØ	29	ØF	7 F
Ø921:C9	ØЗ	FØ	19	AA	AC	В8	ØF	11
Ø929:B9	4E	ØF	18	7D	B4	ØF	9D	89
Ø931:B4	ØF	BD	В6	ØF	69	ØØ	9D	40
Ø939:B6	ØF	2Ø	3F	Ø9	6Ø	ΑØ	Ø7	74
Ø941:AE	В5	ØF	AD	В7	ØF	2Ø	56	65
Ø949:Ø9	ΑØ	22	ΑE	B4	ØF	AD	В6	2B
Ø951:ØF	2Ø	56	Ø9	6Ø	8C	В9	ØF	Ø6
Ø959:86	FB	85	FC	A2	Ø8	ΑØ	FF	A4
Ø961:C8	A5	FΒ	48	38	FD	91	Ø9	2B
Ø969:85	FB	A 5	FC	48	FD	92	Ø9	2A
Ø971:85	FC	9Ø	Ø5	68	68	4C	61	C6
Ø979:Ø9	68	85	FC	68	85	FB	98	94
Ø981:Ø9	ВØ	AC	В9	ØF	99	ØØ	Ø4	58
Ø989:EE	В9	ØF	CA	CA	1Ø	CF	6Ø	A6
Ø991:Ø1	ØØ	ØA	ØØ	64	ØØ	E8	ØЗ	5D
Ø999:1Ø	27	A2	Ø4	86	Ø6	BD	DF	В9
Ø9A1:Ø2	38	E9	2A	29	F8	48	85	E5
Ø9A9:FB	Α9	ØØ	85	FC	Ø6	FΒ	26	9A
Ø9B1:FC	Ø6	FB	26	FC	68	18	65	C4
Ø9B9:FB	85	FB	A5	FC	69	ØØ	85	18
Ø9Cl:FC	BD	D7	Ø2	85	FE	BD	CF	5Ø
Ø9C9:Ø2	85	FD	ΑØ	ØЗ	46	FE	66	9D
Ø9D1:FD	88	DØ	F9	Α5	FD	38	E9	3E
Ø9D9: Ø2	85	FD	A5	FE	E9	ØØ	85	8D
Ø9E1:FE	A5	FB	18	65	FD	85	FB	Ø8
Ø9E9:A5	FC	65	FE	85	FC	A5	FC	13
Ø9F1:18	69	D8	85	FC	ΑØ	ØØ	Bl	F9
Ø9F9:FB	29	ØF	A2	Ø3	CA	3Ø	68	6C
ØAØ1:DD	40	ØF	DØ	F8	8E	в8	ØF	85
ØAØ9:A5	FC	38	E9	D4	85	FC	Bl	3D
ØAll:FB	A2	Ø3	CA	3Ø	52	DD	45	A4
ØA19:ØF	DØ	F8	8A	ØA	A8	A6	Ø6	F6
ØA21:A5	FD	38	E9	ØВ	4A	4A	DD	21
ØA29:96	ØF	FØ	3C	9D	96	ØF	BD	51
ØA31:BF	Ø2	10	Ø1	C8	В9	48	ØF	84
ØA39:AØ	ØØ	91	FB	2Ø	74	ØA	C9	40
ØA41:2Ø	DØ	1A	A5	FD	38	E9	ØВ	E6
ØA49:4A	4A	AA	FE	AA	ØF	BD	AA	12
ØA51:ØF	C9	2E	DØ	Ø8	A9	ØØ	9D	В6
ØA59:AA	ØF	2Ø	9C	ØC	2Ø	1A	Ø9	72
ØA61:A6	Ø6	2Ø	65	ØC	4C	6B	ØA	17
ØA69:A6	Ø6	CA	ΕØ	Ø1	FØ	ØЗ	4C	D7
ØA71:9D	Ø9	6Ø	48	8A	38	E9	Ø2	32

ØA79:A8 B9 B8 ØA A8 A9 1E 99 C9 ØA81:Ø1 D4 Α9 11 99 Ø5 D4 Α9 C5 Ø4 D4 A9 ØA89:8Ø 99 81 99 Ø4 9C ØA91:D4 68 6Ø 48 8A 38 E9 Ø2 C5 ØA99:A8 B9 B8 ØA A8 68 ØA ØA ØAA1:ØA 18 69 ØA 99 Ø1 D4 A9 B2 ØAA9:13 99 Ø5 D4 A9 2Ø 99 Ø4 AØ ØAB1:D4 A9 21 99 Ø4 **D4** 60 ØØ ØAB9:07 ØE Α9 ØØ AØ 17 99 ØØ 9E ØAC1:D4 88 10 FA A9 0F 8D 18 ØAC9:D4 A9 $\mathbf{F}\mathbf{F}$ 8D ØF **D4** Α9 80 2B ØAD1:8D 12 D4 Α9 14 8D FD Ø2 3B ØAD9:8D FE Ø2 A9 ØØ 85 A2 ΑØ 4B ØAE1:04 99 AA ØF 99 **B4** ØF 88 EA ØAE9:10 F7 ΑØ Ø2 A2 4B AD 1B FØ Ø2 A2 ØAF1:D4 10 В4 8A 99 Cl A3 ØAF9:02 A9 Ø6 99 98 ØF 88 10 F5 BD D7 ØBØ1:EB 6Ø Ø2 DØ 17 BD 99 ØBØ9:CF Ø2 C9 ØA DØ 26 A9 14 E7 ØB11:9D 96 ØF A9 4D 9D CF Ø2 9A ØB19:A9 Ø1 9D D7 Ø2 6Ø BD CF 52 ØB21:02 C9 4E DØ ØF Α9 14 9D 66 ØB29:96 ØF A9 ØB 9D CF Ø2 A9 ØE ØB31:00 9D D7 Ø2 6Ø BD D7 Ø2 75 ØB39:DØ 2E BDBFØ2 1Ø 28 BD ØB41:CF Ø2 C9 1B FØ Ø4 C9 45 1B ØB49:DØ 1D AD DF Ø2 38 FD DF 8F ØB51:02 C9 F5 BØ Ø4 C9 ØF ВØ ØB59:ØE 2Ø 9C ØB A9 Ø1 9D 27 76 ØB61:DØ 2Ø 94 ØA 4C 93 ØB 6Ø 42 Ø2 Ø2 ØB69:BD BF Ø2 30 FA BD CF ØB71:C9 3D FØ Ø4 C9 13 DØ EF 46 ØB79:AD EØ Ø2 38 FD DF Ø2 C9 9F Ø4 C9 ØF BØ EØ 2Ø F8 ØB81:F5 BØ ØB89:9C ØB A9 ØØ 9D 27 DØ 2Ø 31 ØB91:94 ØA A9 14 9D 96 ØF 20 70 ØB99:65 ØC 6Ø C9 ØØ DØ ØB AD 15 10 04 A9 FF DØ Ø2 ØBA1:Ø4 DC 2Ø AB ØE Ø8 1Ø Ø3 47 ØBA9:A9 Ø1 ØBB1:20 AB ØE ØA ØA 18 69 ØA B2 ØBB9:28 1Ø ØЗ 2Ø AB ØE 9D C7 A2 Ø4 2Ø Ø3 ØB 2Ø C8 ØBC1:02 60 ØC 2Ø 45 ØC C9 31 FØ A1 ØBC9:17 ØBD1:04 C9 E5 DØ Ø3 2Ø 83 ØC D1 ØBD9:BD BF Ø2 10 ØE BD CF Ø2 Ø9 14 DØ 26 BD D7 Ø2 DØ 8Ø ØBE1:C9 Ø2 C9 44 88 ØBE9:21 FØ ØC BD CF 18 BD D7 Ø2 FØ 13 BD 63 ØBF1:DØ ØBF9:DF Ø2 C9 57 9Ø Ø4 C9 BE 16 ØCØ1:9Ø Ø8 Α9 14 9D 96 ØF 2Ø 5F ØCØ9:65 ØC 2Ø 36 CA EØ 84 ØВ Ø1 ØC11:FØ Ø3 4C C5 ØB 6Ø AØ ØØ 63

ØC19:BD	BF	Ø2	1Ø	Ø2	ΑØ	$\mathbf{F}\mathbf{F}$	8C	6Ø
ØC21:F8	Ø2	8C	F9	Ø2	BD	EF	Ø2	5Ø
ØC29:18	7D	BF	Ø2	9D	EF	Ø2	BD	33
ØC31:CF	Ø2	6D	F8	Ø2	9D	\mathbf{CF}	Ø2	17
ØC39:BD	D7	Ø2	29	Øl	6D	F9	Ø2	AC
ØC41:9D	D7	Ø2	6Ø	ΑØ	ØØ	BD	C7	AC
ØC49:02	10	Ø2	ΑØ	FF	8C	FA	Ø2	DA
ØC51:BD	E7	Ø2	18	7D	C7	Ø2	9D	BØ
ØC59:E7	Ø2	BD	DF	Ø2	6D	FA	Ø2	59
ØC61:9D	DF	Ø2	6Ø					
				BD	BF	Ø2	2Ø	97
ØC69:AB	ØE	9D	BF	Ø2	BD	CF	Ø2	33
ØC71:85	Ø6	2Ø	17	ØC	BD	CF	Ø2	3C
ØC79:C5	Ø6	FØ	F6	2Ø	17	ØC	4C	45
ØC81:17	ØC	BD	C7	Ø2	2Ø	AB	ØE	52
ØC89:9D	C7	Ø2	BD	DF	Ø2	85	Ø6	96
ØC91:2Ø	45	ØC	BD	DF	Ø2	C5	Ø6	Ø1
ØC99:FØ	F6	6Ø	8A	48	Α9	33	85	71
ØCA1:FB	Α9	33	85	FD	Α9	Ø4	85	Ø5
ØCA9:FC	Α9	D8	85	FE	8A	ØA	ØA	5E
ØCB1:A8	BD	40	ØF	85	F9	A2	16	F5
ØCB9:A9	ΑØ	91	FΒ	C8	91	FB	88	CD
ØCC1:A5	F9	91	FD	C8	91	FD	88	4E
ØCC9:A5	FB	18	69	28	85	FB	A5	42
ØCD1:FC	69	ØØ	85	FC	A5	FD	18	AD
ØCD9:69	28	85	FD	A5	FE	69	øø	3D
ØCE1:85	FE	CA	1Ø	D3	68	AA	6ø	CC
ØCE9:A5	F7	FØ	26	A2	Ø1	BD	ØØ	E7
ØCF1:DC	4A	ВØ	ØD	BD	DF	Ø2	C9	2D
ØCF9:3B	FØ	13	DE	DF	Ø2	4C	ØF	EA
ØDØ1:ØD	4A	ВØ	ØA	BD	DF	Ø2	C9	26
ØDØ9:DC	FØ	Ø3	FE	DF	Ø2	CA	1Ø	CA
ØD11:DD	60	78	AD	Ø2	DC	48		
ØD19:CØ	8D	Ø2	DC				A9	D9
				A9	8Ø	8D	ØØ	6F
ØD21:DC	AØ	8Ø	EA	88	DØ	FC	A2	B4
ØD29:01	BD	19	D4	C9	3B	BØ	Ø4	44
ØD31:A9	3B	DØ	Ø6	C9	DC	9Ø	Ø2	4E
ØD39:A9	DC	48	8A	ØA	ØA	ØA	18	В5
ØD41:69	BD	85	FB	Α9	ØF	69	ØØ	4C
ØD49:85	FC	BD	BB	ØF	A8	68	91	56
ØD51:FB	CØ	Ø7	DØ	Ø7	Α9	ØØ	9D	Ø4
ØD59:BB	ØF	FØ	ØЗ	FE	BB	ØF	Α9	12
ØD61:00	85	FD	85	FE	ΑØ	Ø7	Α5	23
ØD69:FD	18	71	FB	85	FD	Α5	FE	E4
ØD71:69	ØØ	85	FE	88	10	FØ	Α5	EC
ØD79:FD	46	FE	6A	46	FE	6A	46	F3
ØD81:FE	6A	9D	DF	Ø2	CA	1Ø	Al	64
ØD89:68	8D	Ø2	DC	58	6Ø	A9	Ø1	El
ØD91:8D	19	DØ	A2	ØE	ΑØ	Ø7	Α9	A7
ØD99:00	85	Ø2	В9	CF	Ø2	9D	ØØ	B2
ØDA1:DØ	В9	DF	Ø2	9D	Ø1	DØ	B9	FA
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ØDA9:D7 Ø2 4A 26 Ø2 CA CA 88 35 ØDB1:10 E9 **A5** Ø2 8D 1Ø DØ Α9 1B ØDB9:FA 8D 12 DØ AD ØD DC 29 88 ØDC1:Ø1 FØ Ø3 4C 31 EΑ 4C BC 48 7F ØDC9:FE Α9 8D ØD DC Α9 8F 55 Α9 ØD 8D Ø3 ØDD1:8D 14 Ø3 15 7E ØDD9:A9 1B 8D 11 DØ Α9 81 8D 1Ø ØDE1:1A DØ 6Ø ΑØ 7F В9 В1 ØE A7 40 ØЗ 88 10 F7 Α9 ØE ØDE9:99 8B ØDF1:8D F8 Ø7 8D F9 Ø7 Α9 ØD 17 ØDF9:AØ Ø2 99 FA Ø7 88 1Ø FA 3D 15 Ø3 ØEØ1:A9 1F 8D DØ Α9 8D 7_D ØEØ9:1D DØ Ø2 **A9** 32 9D C9 77 **A2** ØE11:02 CA 10 F8 6Ø ΑØ Ø4 В9 ØE19:31 Ø2 36 ØF ØF 99 CF В9 34 ØE21:99 D7 Ø2 В9 3B ØF 99 DF Ø5 88 ØE29:02 В9 ØE 99 27 DØ AF 34 ØE31:10 ØØ Ø3 ØЗ ØЗ E5 6Ø Ø1 FF ØE39:A9 93 20 D2 FF Α9 ØB 8D **8**A ØE41:21 DØ **A9** ØØ 8D 2Ø DØ ΑØ 86 99 ØE49:27 **A9** ΑØ 99 ØØ Ø4 CØ 15 ØE51:07 A9 ØF 99 ØØ **D8** 99 CØ 2E 88 ØE59:DB 1Ø ED ΑØ **C8** Α9 ΑØ 82 ØE61:99 ØØ Ø4 99 27 Ø4 99 F8 D9 ØE69:06 99 1F Ø7 **A9** ØF 99 ØØ FF ØE71:D8 F8 DA 99 99 27 **D8** 99 D₂ ØE79:1F DB 98 38 E9 28 **A8** C9 BD ØE81:D8 DØ DB **A2** Ø4 2Ø 9C ØC C9 ØE89:CA Ø1 18 35 1Ø FA A2 ØØ AØ ØE91:2Ø ΑØ ØF 2Ø DF FØ FF Α9 51 2Ø ØE99:1E AB **A2** 18 ΑØ ØF 18 17 ØEA1:FØ FF 74 AØ ØF 2Ø 1E 52 Α9 Ø1 ØEA9:AB 6Ø 49 FF 18 69 6Ø **A5** ØEB1:ØØ ØØ CD ØØ ØØ ØØ ØØ ØØ ØØ ØEB9:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ **D5** ØEC1:00 ØØ ØØ ØØ ØØ ØØ DD ØØ ØØ ØEC9:00 ØØ ØØ ØØ 18 ØØ ØØ 3C E2 ØED1:00 18 ØØ ØØ D5 ØØ 3C ØØ ØØ ØED9:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ F5 ØEE1:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ FD ØEE9:00 ØØ ØØ ØØ ØØ ØØ 7F 85 ØØ СØ ØØ 68 ØEF1:CØ ØØ Ø3 CØ ØØ ØЗ CØ CØ ØØ ØЗ C4 ØEF9:03 ØØ Ø3 CØ ØFØ1:00 ØЗ CØ ØЗ CØ ØØ ØЗ 16 ØØ ØЗ CØ ØØ ØFØ9:CØ ØØ ØЗ CØ ØØ 81 ØЗ СØ DD ØF11:03 СØ ØØ ØЗ СØ ØØ ØF19:00 ØЗ CØ ØØ ØЗ CØ ØØ Ø3 2E Ø3 Ø3 CØ ØØ 99 ØF21:CØ ØØ ØØ CØ ØЗ 3D ØF29:03 CØ ØØ СØ ØØ Ø8 ØЗ ØF31:21 1 F ØC ØC ØC ØØ Ø1 ØØ 4C ØØ 82 82 82 8C 96 ØΑ 4D ØF39:00

ØF41:03 ØD Ø3 ØA AØ E1 61 E1 56 ØF49:61 2Ø 2Ø 20 20 ØΑ 14 1E 95 ØF51:9B 12 53 43 4F 52 45 20 CE ØF59:2Ø 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø 2Ø 77 ØF61:54 49 4D 45 2Ø 33 3A 3Ø 6C ØF69:3Ø 2Ø 2Ø 2Ø 2Ø 53 43 4F D1 ØF71:52 45 ØØ 5Ø 52 49 53 4F BC ØF79:4E 42 41 4C 4C ØØ 5Ø 52 91 ØF81:45 53 53 2Ø 46 52 45 C4 49 ØF89:42 55 54 54 4F 4E ØØ ØØ Al

Program 4 **Q-Bird**

You must have a copy of "MLX" typed in and saved to disk or tape before you start entering "Q-Bird." Load and run MLX; then answer the prompts for the starting and ending addresses with

Starting Address: 0801 Ending Address: 1910

Save a copy (several is safer) of the completed program to tape or disk before you exit MLX.

Q-Bird

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
Ø8Ø1:ØB Ø8 ØØ ØØ 9E 32
                        3Ø 36 EC
Ø8Ø9:31 ØØ ØØ ØØ A9 ØØ 8D
                          2Ø
Ø811:DØ 2Ø AD 14 2Ø
                     1B Ø8 4C 52
Ø819:Cl ØB A9 93
                 20 D2 FF A9
Ø821:Ø8 2Ø D2 FF A9
                     8E 2Ø D2
Ø829:FF A9 Ø4 85 Ø2 A9 ØE 38 87
Ø831:E5 Ø2 85 D3 A5
                     Ø2 85 D6
Ø839:2Ø 1Ø E5 AØ Ø6
                    A2 ØE BD
Ø841:61 Ø8 2Ø D2 FF
                     CA 10 F7
                     2Ø
                        D2 FF
                              29
Ø849:88 1Ø
           F2 A9 ØD
Ø851:2Ø D2 FF E6 Ø2
                    E6 Ø2 A5
Ø859:02 C9 10 D0 D0
                    4C 7Ø Ø8 8C
Ø861:1D 91 B7
              B7 98 9D 9D 9D EA
Ø869:11 A9 92 2Ø A9 12 Ø5 AØ
Ø871:Ø9 A9 ØØ 85 Ø2 A6 Ø2 BD
                     Ø8 2Ø D2
Ø879:AD Ø8 C9 FF
                 FØ
Ø881:FF E6 Ø2 4C 76 Ø8 88 1Ø
                              45
Ø889:Ø3 4C 8F
              13 E8 E6 Ø2 BD F5
Ø891:AD Ø8 85 D3 E8 E6 Ø2 BD
Ø899:AD Ø8 85 D6 48 8A
                       48 98
Ø8A1:48 2Ø 1Ø E5 68 A8 68 AA
Ø8A9:68 4C 82 Ø8 FF
                     21
                        Ø5 1C
                              7C
                  52
                           21
Ø8B1:51
        2D 42
              49
                     44
                        FF
                               57
Ø8B9:Ø6 A3 A3 A3 A3 A3 FF
                              57
Ø8C1:23 Ø8 1F 42 59 FF
                        22 ØA 86
                     21
                        ØC 53 8Ø
Ø8C9:4D 49 4B
              45 FF
              52 45
                              E7
Ø8D1:45 44 4F
                     \mathbf{F}\mathbf{F}
                        Ø4
                           11
Ø8D9:1E 48 49 53 43
                     4F
                        52 45
Ø8E1:3A 99 34 36 33 37 3Ø FF
```

```
7B
Ø8E9:Ø5 13 1E 53 43
                        4F
                           52 45
Ø8F1:3A 99
             34
                 36
                    33
                        37
                            3Ø
                               FF
                                   46
Ø8F9:19 11
                4C
             1E
                    45
                        56
                            45
                               4C
                                   RD
Ø9Ø1:3A 99
             3Ø
                31
                    FF
                        19
                            13
                               1E
                                   58
Ø9Ø9:4C
         49
             56
                45
                    53
                        3A
                            99
                               ŦŦ
                                   69
Ø911:A9
         97
             2Ø
                D2
                    FF
                        ΑØ
                           Ø2 A9
                                   3F
            2E
Ø919:A4
         20
                Ø9
                    ΑØ
                        1Ø A9
                               A3
                                   18
Ø921:2Ø
         2E
             Ø9
                ΑØ
                    14
                        Α9
                           A4
                               2Ø
                                   AA
Ø929:2E Ø9 4C
                42
                    Ø9
                        84
                           D6
                               ΑØ
                                   EA
Ø931:ØØ 84 D3
                48
                    2Ø
                        1Ø
                           E5
                               68
                                   D8
Ø939:A2
         26
             2Ø
                D2
                    FF
                        CA
                            1Ø
                               FA
                                   9D
Ø941:6Ø
         A9
             1F
                85
                    D3
                        Α9
                            ØЗ
                               85
                                   FA
Ø949:D6
         20 10
                E5
                    A2
                        ØC
                           Α9
                               A7
                                   6F
Ø951:2Ø D2 FF
                A9
                    9D
                        2Ø
                           D2
                               FF
                                   D5
Ø959:A9
         11
             20
                D2
                    FF
                        CA
                           1Ø
                               EE
                                   EF
Ø961:6Ø A9 FF
                8D
                    1C
                       DØ
                           A9
                               ØØ
                                   5E
Ø969:8D 15
             DØ
                8D
                    1D
                        DØ
                            8D
                               17
                                   D8
Ø971:DØ A9
             Ø7
                 8D
                    25
                        DØ
                            4C
                               7 A
                                   8F
Ø979:ØB Ø3 CØ
                ØØ
                    ØE BØ
                           FØ
                               3A
                                   39
Ø981:AF
         AC
             36
                6A
                    AC
                        D6
                           AA
                               ВØ
                                   CA
Ø989:3A
        AA BØ
                ØE
                    AA
                        CØ
                           Ø3
                               67
                                   2Ø
         Ø3
             77
                           CØ
Ø991:ØØ
                ØØ
                    ØD
                        DD
                               Ø3
                                   B7
Ø999:33
         øø øø
                ØØ
                    ØØ
                        ØØ
                            ØØ
                               ØØ
                                   45
Ø9A1:ØØ
         ØØ
             ØØ
                ØØ
                    ØØ
                        ØØ
                            ØØ
                               ØØ
                                   B3
         ØØ
             ØØ
                ØØ
Ø9A9:ØØ
                    ØØ
                        ØØ
                            ØØ
                               ØØ
                                   BB
Ø9B1:ØØ
         ØØ
             ØØ
                ØØ
                    ØØ
                        ØØ
                            ØØ
                               ØØ
                                   C3
             C3
Ø9B9:ØØ
         ØЗ
                ØØ
                    ØE
                        BE
                            FØ
                                   8C
                               3A
Ø9Cl:AA EC
             D6
                 6B
                    AC
                        36
                           AB
                               BØ
                                   3C
Ø9C9:DA AE
             ΒØ
                 3E
                    AΑ
                        CØ
                           Ø3
                               67
                                   B4
             77
                        77
Ø9D1:ØØ
         ØЗ
                 ØØ
                    ØЗ
                            ØØ
                               ØD
                                   96
Ø9D9:DD
         CØ
             Ø3
                 33
                    ØØ
                        ØØ
                            ØØ
                               ØØ
                                   9E
Ø9E1:ØØ
         ØØ
             ØØ
                 ØØ
                    ØØ
                        ØØ
                            ØØ
                               ØØ
                                   F3
Ø9E9:00
         ØØ
             ØØ
                ØØ
                    ØØ
                        ØØ
                            ØØ
                               ØØ
                                   FB
Ø9F1:ØØ
         ØØ
             ØØ
                 ØØ
                    ØØ
                        ØØ
                            ØØ
                               ØØ
                                   Ø4
         ØØ
             ØF
                 ØØ
                    3C
                        3A CØ
                               EB
                                   26
Ø9F9:ØØ
ØAØ1:EA BØ EA
                Α6
                    7Ø
                        3A AA
                               5C
                                   9C
                        СØ
                            ØЗ
                               67
                                   Al
ØAØ9:3A
         AA
             ВØ
                 ØE
                    AA
                                   39
             77
                 ØØ
                    ØD
                        DD
                            CØ
                               Ø3
ØA11:00
         Ø3
ØA19:33
         ØØ
             ØØ
                 ØØ
                    ØØ
                        ØØ
                            ØØ
                               ØØ
                                   C6
             ØØ
                 ØØ
                    ØØ
                        ØØ
                            ØØ
                               ØØ
                                   35
ØA21:00
         ØØ
                        ØØ
                            ØØ
                               ØØ
                                   3D
ØA29:00
         ØØ
             ØØ
                 ØØ
                    ØØ
                 ØØ
                    ØØ
                        ØØ
                            ØØ
                               ØØ
                                   45
ØA31:00
         ØØ
             ØØ
                    3E
                        FA
                            CØ
                               EE
                                   3E
ØA39:00 Ø3
             ØF
                 ØØ
             EB
                 Α6
                    5C
                        3B
                            AA
                                7Ø
                                   54
ØA41:AA BØ
         EA
             9C
                 ØE
                    AA
                       FØ
                            Ø3
                                67
                                   3Ø
ØA49:3A
                                   18
         Ø3
             77
                 ØØ
                    Ø3
                        77
                            ØØ
                                ØD
ØA51:00
                                   2Ø
                        ØØ
                            ØØ
                                ØØ
ØA59:DD
         CØ
             ØЗ
                 33
                    ØØ
                                   75
ØA61:00
         ØØ
             ØØ
                 ØØ
                    ØØ
                        ØØ
                            ØØ
                                ØØ
                                   7 D
             ØØ
                 ØØ
                    ØØ
                        ØØ
                            ØØ
                                ØØ
ØA69:00
         ØØ
                 ØØ
                    ØØ
                        ØØ
                            ØØ
                                ØØ
                                   85
         ØØ
             ØØ
ØA71:00
                 ØØ
                    ØE
                        ВØ
                            ØØ
                                36
                                   CF
ØA79:00 Ø3 CØ
```

ØA81:6C ØØ EA AC ØØ FE AC ØØ ØA89:EA AC AC ØØ 3E ВØ ØØ EA 2A ØA91:00 35 AC ØØ ØD AC ØØ ØD BØ ØA99:AC ØØ ØD AC ØØ 3A AC ØØ ØAA1:EA BØ ØØ 3E ВØ ØØ ØE ВØ 8D ØAA9:00 Ø3 AC ØØ ØØ FØ ØØ ØØ· D7 ØAB1:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØAB9:00 CØ ØØ ØЗ ØE ВØ ØØ 36 1Ø ØAC1:6C ØØ EA AC ØØ EA AC ØØ 39 ØAC9:3A ВØ ØØ ØE AC ØØ 3A AC 8E ØAD1:00 E5 AC ØØ 3D AC ØØ ØD 9E AC ØAD9:AC ØØ ØD ØØ 3A ВØ ØØ FA ØAE1:EA ВØ ØØ EE ВØ ØØ 3E ВØ 39 ØAE9:00 Ø3 ВØ ØØ ØØ CØ ØØ ØØ D7 ØAF1:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ Ø6 ØAF9:00 ØF ØØ ØØ 3A CØ ØØ **E6** 8D ØBØ1:7Ø ØØ EA AC ØØ EA FC ØØ 1 D ØBØ9:EA AC ØØ 3A FØ ØØ EΑ AC 6D ØB11:00 E9 ØØ 7Ø E9 CØ ØØ E9 EB ØB19:CØ ØØ E9 CØ ØØ EA ВØ ØØ E5 ØB21:3A AC ØØ 3A FØ ØØ 3A CØ DF ØB29:00 EB ØØ ØØ 3C ØØ ØØ ØØ 1C ØB31:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØB39:00 ØF ØØ ØØ 3A CØ ØØ **E6** CE ØB41:7Ø ØØ EA AC ØØ EA AC ØØ BC ØB49:3A ВØ ØØ EA CØ ØØ EA ВØ ØB51:00 E9 6C ØØ E9 FØ ØØ E9 6C ØB59:CØ ØØ E9 CØ ØØ **3A** ВØ ØØ 63 ØB61:3A AC ØØ ЗА EC ØØ **3A** FØ ØB69:00 3B ØØ ØØ ØC ØØ ØØ ØØ AE ØB71:ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØØ 87 ØB79:00 A9 ØØ 8D 26 DØ A2 Ø7 93 ØB81:BD 93 ØB 9D 27 DØ BD 9В 2A ØB89:ØB 9D F8 Ø7 CA 1Ø Fl 4C E2 ØB91:A3 ØB Ø5 Ø4 Ø4 Ø4 Ø9 Ø2 61 ØB99:06 ØE 8C 86 84 86 8A 88 ØC A2 ØBA1:80 8E ØF BD Bl ØВ 9D 49 ØBA9:ØØ DØ CA 1Ø F7 6Ø ØØ ØØ 8F ØBB1:78 66 6D 47 FD 47 1D 97 9E ØØ ØØ ØØ A9 ØBB9:00 9E ØØ ØØ 97 ØBC1:20 62 Ø9 4C 8Ø 12 4C E9 35 C9 ØBC9:18 AD 34 ØЗ Ø7 DØ ØF 29 ØBD1:A9 ØØ 8D 34 ØЗ EE 35 Ø3 F2 35 ØЗ C9 Ø5 ØЗ ØBD9:AD FØ 4C 4F ØBE1:D8 15 2Ø 2A ØC FØ ØЗ 4C C6 ØBE9:A9 11 20 CØ 11 29 ØF 49 BD ØBF1:ØF 85 ØЗ 29 Ø1 FØ Ø8 A9 69 ØBF9:00 8D ØØ 8Ø 4C 8D ØC A5 Dl ØCØ1:03 29 Ø2 FØ Ø8 Α9 2Ø 8D ØCØ9:00 80 4C 8D 0C A5 ØЗ 29 C9

ØC11:04	FØ	Ø8	Α9	40	8D	ØØ	8Ø	BB
ØC19:4C	8D	ØC	A5	Ø3	29	Ø8	FØ	54
ØC21:BE	Α9	6Ø	8D	ØØ	8Ø	4C	8D	1Ø
ØC29:ØC	Α9	ØØ	8D	35	Ø3	AD	36	Dl
ØC31:Ø3	6Ø	8D	21	DØ	Α9	ØØ	A2	76
ØC39:CB	9D	34	Ø3	CA	ΕØ	FF	DØ	FF
ØC41:F8	60	EE	36	Ø3	AE	36	Ø3	71
ØC49:EØ	1A	DØ	Ø8	A9	ØØ	8D	36	91
ØC51:03	4C	15	16	8A	18	6D	ØØ	91
ØC59:8Ø	AA	BD	F3	ØC	AA	BD	76	5Ø
ØC61:ØC	18	6D	ØC	DØ	8D	ØC	DØ	99
ØC69:BD	81	ØC	18	6D	ØD	DØ	8D	92
ØC71:ØD	DØ	4C	CF	17	ØØ	ØØ	ØØ	83
ØC79:ØØ	FF	FF	FF	ØØ	Øl	Ø1	Ø1	98
ØC81:ØØ	FF	Øl	ØØ	øø	FF	Ø1	ØØ	BB
ØC89:ØØ	FF	Øī	ØØ	AD	øø	8Ø	FØ	21
ØC91:ØC	C9	6Ø	FØ	Ø8	A9	81	8D	B4
ØC99:FE	ø7	4C	43	ØC	A9	83	8D	4C
ØCA1:FE	Ø7	4C	43	ØC	CE	FE	Ø7	59
ØCA9:4C	ΕØ	ØВ	A9	Ø4	85	FE	ΑØ	FØ
ØCB1:00	84	FD	A2	Ø4	AD	3A	Ø3	23
ØCB9:18	65	FD	85	FD	A5	FE	69	3D
ØCC1:00	85	FE	CA		EF	A5	FD	51
ØCC9:18	6D	3B	Ø3	85	FD	A5	FE	4F
ØCD1:69	ØØ	85	FE	6Ø	ØØ	ØØ	AD	EF
ØCD1:09	DØ	38	E9	31	8D	3A	Ø3	89
ØCE1:AD	ØC	DØ	4A	4A	4A	18	69	A7
ØCE9:ØC		3B	Ø3	20	AC	ØC	4C	lB
ØCF1:8C	ØD	ØØ	Ø1	Ø1	Ø1	Ø1	Ø1	B2
ØCF9:01		Ø1	Ø9	Ø9	Ø9	Ø9	Ø9	ØВ
ØDØ1:09	Ø1	Ø9	Ø8	Ø8	Ø8	Ø8	Ø8	FB
	Ø9				ØØ			
ØDØ9:08	Ø8	Ø8	ØØ	ØØ	Ø4	ØØ Ø4	ØØ Ø4	2A
ØD11:00 ØD19:04	ØØ Ø4	ØØ Ø4	Ø4 Ø6	Ø4 Ø6	Ø6	Ø6	Ø6	A7 71
ØD19:04 ØD21:06	Ø6	Ø6	Ø2	Ø2	Ø2	Ø2	Ø2	BE
ØD21:00	Ø2		ØØ	ØØ	ØØ	ØØ	ØØ	Ø5
ØD29:02		Ø2		Ø5	Ø5	Ø5	Ø5	
	ØØ	ØØ	Ø5					E6
ØD39:05 ØD41:04	Ø5	Ø5	Ø4	Ø4	Ø4 Ø6	Ø4 Ø6	Ø4 Ø6	34
ØD41:04 ØD49:06	Ø4	Ø4	Ø6	Ø6				99
	Ø6	Ø6	ØØ	ØØ	ØØ	ØØ	ØØ	A8
ØD51:00	ØØ	ØØ	Ø9	Ø9	Ø9	Ø9	Ø9	83
ØD59:09	Ø9	Ø9	Ø8	Ø8	Ø8	Ø8	Ø8	54
ØD61:08	Ø8	Ø8	ØA	ØA	ØA	ØA	ØA	B9
ØD69:ØA	ØA	ØA	ØØ	ØØ	ØØ	ØØ	ØØ	4C
ØD71:00	ØØ	A5	FE	18	69	D4	85	C5
ØD79:FE	ΑØ	Ø2	Bl	FD	4C	48	12	5A
ØD81:20	Ø1	17	91	FD	88	1Ø	F3	ØE
ØD89:4C ØD91:E1	A6	ØC	Bl	FD	C9	E9 Ø3	FØ	EB Cl
ØD91:E1	4C Ø3	46 C9	14 Ø2	EE DØ	37 2C		AD	
ØDA1:8D	37	Ø3	EE	38	Ø3	A9 AD	ØØ 38	F3 Ø1
SULTION	JI	w J	ظظ	20	\boldsymbol{v}	'nν	20	ΩŢ

ØDA9:03 C9 Ø1 DØ 1D A9 ØØ 8D Ø2 ØDB1:38 Ø3 A2 Ø1 FE 3C Ø3 BD B9 ØDB9:3C Ø3 DD CD ØD DØ Ø8 A9 BØ ØDC1:00 9D 3C 03 20 EA 0D 4C 0E ØDC9:BC ØE 6Ø 15 11 18 1C 2Ø 64 ØDD1:A2 18 A9 ØØ 9D ØØ D4 CA D9 ØDD9:10 FA A9 FF 8D 0F D4 A9 EB ØDE1:80 8D 12 D4 Α9 ØØ 4C 7Ø 85 ØDE9:17 BD 4Ø Ø3 DØ ØB 2Ø 5E 88 ØDF1:ØE ØA ØA ØA ØA ØA 2Ø 77 47 ØDF9:ØE BD 5Ø Ø3 8D Ø1 8Ø FE 35 ØEØ1:4Ø Ø3 BC 4Ø Ø3 CØ lE DØ Cl ØEØ9:06 A9 ØØ 9D 4Ø Ø3 6Ø 86 Cl ØE11:05 Ø6 Ø5 8E 4F Ø3 98 18 8A ØE19:6D Ø1 8Ø A8 B9 F3 ØC DØ 4D ØE21:ØA 48 BD F8 Ø7 29 FE 9D 14 ØE29:F8 Ø7 Ø5 68 AA A4 BD 76 66 ØE31:ØC 18 79 ØØ DØ 99 ØØ DØ 46 ØE39:BD 81 ØC 18 79 Ø1 DØ 99 A2 ØE41:01 DØ AE 4F Ø3 6Ø 9D 5Ø Ø2 ØE49:03 C9 ØØ FØ ØA C9 60 FØ 91 ØE51:06 A9 85 9D F8 Ø7 60 A9 B3 ØE59:87 9D F8 Ø7 6Ø 2Ø B3 ØE 29 ØE61:AD 3A Ø3 38 E9 2C 8D 3A 1C ØE69:03 AD 3B 03 4A 4A 4A 18 ØE71:69 ØC 8D 3B Ø3 86 FC 2Ø F6 ØE79:AC ØC A6 FC AØ ØØ B1 FD F9 ØE81:C9 E9 DØ D9 AD FF Ø3 6Ø 88 ØE89:86 Ø5 2Ø 97 17 29 Ø3 8D 98 ØE91:FF Ø3 AA BD AB ØE 18 79 DE ØE99:01 DØ 8D 3A Ø3 BD AF ØE 3C ØEA1:18 79 ØØ DØ 8D 3B Ø3 A6 **3B** ØEA9:05 60 F2 12 Ø2 Ø2 12 F2 ØF ØEB1:EA 1A 86 Ø5 Ø6 Ø5 A4 Ø5 7 D ØEB9:4C 89 ØE E8 EØ Ø4 FØ Ø3 AA ØEC1:4C B5 ØD 4C CB ØD A2 ØØ AF ØEC9:BD 7A Ø9 9D ØØ 2Ø BD 7A D4 ØED1:ØA 9D ØØ 21 BD E7 ØE 9D B3 ØED9:00 22 BD A7 ØF 9D CØ 22 43 ØEE1:CA DØ E5 4C D1 ØD ØØ FC D8 ØEE9:00 Ø3 AB ØØ ØE 5A CØ 39 DØ ØEF1:AA BØ 3A AA ВØ EA A9 AC B2 ØEF9:EA AA AC EA AA AC 39 AA 9F ØFØ1:BØ 39 69 BØ ØE 56 CØ Ø3 4C ØFØ9:AB ØØ ØØ FC ØØ ØØ ØØ ØØ CC ØF11:00 00 ØØ ØØ ØØ ØØ ØØ ØØ 2F ØF19:00 00 ØØ ØØ ØØ ØØ ØØ ØØ 37 ØF21:00 ØØ ØØ ØØ ØØ ØØ ØØ FC 3C ØF29:00 03 AB ØØ ØE 96 CØ 3A Ø4 ØF31:A9 BØ 3A AA BØ EA AA AC 75 ØF39:EA AA AC EA AA AC 39 AA EØ 36 EE Ø8 8D Q5 TT 36 Ø۷ 90: TOOT **36** DΩ εø ΕQ αA Ø9 Ø9 TQC9:60 ¥9 Øħ 6A Ø6 ΕĐ 28 εø εø TOCI:38 ED 23 70 69 81 DΝ αA ØØ Ø9 IQB9:20 6A 6A Ø9 ØØ εø Ø6 80 TOBI: EQ ØS εø F6 ED 38 8Ø 69 18 Ød:6401 TE τø **QA** ØØ ØØ ØØ ØØ ØØ 00: IAQI ØØ ØØ ØØ **B**3 ØØ ØØ ØØ ØØ ØØ:66ØI BT ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØØ: 16Ø1 6A ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØØ:68ØT ØØ EC ΙĐ ØØ ØØ ØØ ØØ ØØ ØØ:T8ØT SA 8B εø ØØ **2B** εø ØØ **e**B EØ:6/01 ØØ **EB** ØØ ЯΑ εø ØØ IQ11:EC 9Ø εø Αħ ØØ ØØ Øε ØØ ØØ ØØ ØØ ØØ:69ØT TB ØØ 00 ØØ ØØ 3E ØØ ØD TOP: TOP 36 ØØ ØØ **8**B εø ØØ ЯΑ εø ØØ:69ØI Э¥ ΘE ØØ đB **e**B εø ØØ 29 TORT: OE D₀ ØØ DΑ ØΕ ØØ 29 ØΕ ØØ JA: 640I ØØ SC 0E **9B** εø ØØ ЯΑ εø ØØ: TÐØT 45 2E 86 εø ØØ **9B** εø ØØ EØ:6EØT 69 ØD 92 ΦD Ø۷ 92 32 ØL. 66: TEØT **B8** 32 Æξ ΒQ AA ØD 99 ΘE ØØ:6ZØT SD ØØ ØØ 00 नन εø 00 00 TØSI : EC 32 ØØ ØØ **AA** εø ØD A₉ ØΕ Ø8:61ØI 82 AA ΘE ВØ BE 36 ØD AB AE: IIQI 32 BN BE 0E aa 29:600T 36 ØD ΉA AS ØΕ ØØ **AA** εø ØØ **9B** ВЗ øø: tøøt εø ۷5 εø ØD 99 ØΣ ØL 66 ØFF9:35 9Ø Ø۷ 32 AA 3E 6A ΕØ ØD 99: I 440 JL. ΘE ØØ ЯA εø ØØ EC 0EE6:00 00 БE ØØ ØØ ØØ ØØ ØØ ØØ QFE1:00 00 Ŀλ ØØ ØØ ØØ ØØ ØØ ØØ QED3:QQ QQ EЕ ØØ ØØ ØØ ØØ ØØ ØØ ØØ QEDI:QQ Øα ØØ ØØ ØΕ ØØ ΕQ Æξ ØØ DFC9:AC 6 T ΘE ØØ ЯΑ ØΕ ΕQ AA 3E ØFCI:AF 9A EУ EУ 6A AA EА 9 ΑЗ QFB9:EF **AB** ΥE 3E EC ЯΑ ΘE ØØ 86 QEBI:BC **JD** Æξ ØØ ØD ΦE ØØ ØØ 0FA9:00 00 ВĿ aa aa ØØ ØØ ØØ ØØ ØØ 0FA1:00 ВЪ ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØE6640 ΑF ØØ ØØ ØØ ØØ ØØ ØØ ØØ 0E91:00 ۲A ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØE89:00 00 00 ЯA D8 ΕQ ØΕ ØØ Æξ **QE81:FØ** ΑŒ AA 3E ΉA EЯ EУ 6¥ ΑA QE79:EA E3 9 AЯ EŁ ЯA YΕ 3E ЪС QE71:F3 **A8** εø ØØ ØØ ØØ ØØ ØØ ØØ:694Ø ØØ J/. aa aa aa aa aa ØØ ØØ 0Ee1:00 ØØ LL ØØ ØØ ØØ ØØ ØØ ØØ ØE28:00 **49** ØØ ØØ 00 ØØ ØØ ØØ ØØ **QE21:00** ØΒ ØØ ØØ ØØ ØØ EC ØØ ØØ QF49:AB 36 eV BQ QE 2V CQ Q3 BC 0E4I:B0

10D9:F0 03 AE F0 03 E0 20 F0 E4 1ØE1:2B 8A 18 6D Ø2 8Ø AA BD 39 10E9:F3 0C AA D0 08 AD F8 07 59 1ØF1:29 8C 8D F8 Ø7 BD 76 ØC 33 10F9:18 6D 00 D0 8D 00 D0 BD 5A 1101:81 ØC 18 6D Ø1 DØ 8D Ø1 28 1109:DØ 4C 4E 11 A9 ØØ 8D FØ DA 1111:03 4C ØA 11 EE F1 Ø3 AD ØD 1119:F1 Ø3 C9 ØA DØ EB A9 ØØ 58 1121:8D F1 Ø3 EE F2 Ø3 AD F2 C7 1129:03 C9 05 D0 DC A9 00 8D 08 1131:F2 Ø3 4C CD 1Ø A9 8D 8D C3 1139:F8 Ø7 4C A7 1Ø AD ØC DØ BD 1141:8D F5 Ø3 AD ØD DØ 8D F6 AØ 1149:03 AD 00 DC 60 EE FA 03 DD 1151:AD FA Ø3 C9 Ø6 DØ ØF A9 41 1159:00 8D FA 03 EE FB 03 AD 89 28 4C 1161:FB Ø3 C9 Ø5 FØ D2 5F 1169:11 A9 ØØ 8D FB Ø3 EE 29 Ø8 1171:DØ AD Ø8 DØ C9 Ø1 DØ EE 58 1179:20 97 17 29 Ø7 C9 23 Ø6 ВØ 1181:F7 ØA ØA ØA ØA 18 69 4C D3 1189:8D Ø9 DØ 4C 67 11 EE FC ED 1191:03 AD FC Ø3 C9 2Ø DØ D1 B2 1199:AD FC Ø7 49 Ø1 8D FC Ø7 86 11A1:A9 ØØ 8D FC Ø3 4C 6A 11 49 11A9:AD FE Ø3 C9 Ø1 FØ Ø3 4C 7D 11B1:43 ØC EE FD Ø3 AD FD Ø3 Ø4 4B 11B9:29 Ø1 FØ F3 4C 46 ØC A9 11C1:00 8D FE Ø3 AD ØØ DC 29 A7 11C9:10 D0 ØЗ EE FE Ø3 4C 3E 52 11D1:11 EE F3 Ø3 AD F3 Ø3 C9 F3 11D9:05 DØ ØF A9 ØØ 8D F3 Ø3 5Ø 11E1:EE F4 Ø3 AD F4 Ø3 Ç9 ØA 45 11E9:FØ Ø3 4C C7 ØB A9 ØØ 8D D7 11F1:F4 Ø3 EE ØB DØ 4C 39 12 1A 21 C9 48 9Ø 11F9:C9 Ø1 FØ 1A 1C 1201:CE ØA DØ EE EF Ø3 AD EF EE 1209:03 C9 08 D0 0D AD FD 07 8D FD Ø7 A9 1211:49 Ø1 ØØ 8D 18 1219:EF Ø3 4C EB 11 2Ø 97 17 8D 1221:29 Ø7 C9 Ø7 BØ F7 **AA A9 A9** 1229:00 18 69 18 CA 10 FA 18 A6 1231:69 58 8D ØA DØ 4C Ø1 12 3E 53 1239:AD ØB DØ C9 A8 DØ B9 A9 1241:01 8D ØB DØ 4C 1E 12 29 DF 1249:ØF C9 ØØ DØ Ø3 4C 89 ØD DD E6 Ø4 C9 ØF 1251:85 Ø4 DØ ØD 8F 1259:EE DØ Ø3 AD DØ Ø3 C9 7E Ø9 1261:DØ Ø3 4C 69 12 4C 81 ØD AØ 1269:A5 Ø4 91 FD 2Ø Ø1 17 4C F2

1271:55	13	AD	El	Ø3	8D	56	12	E5
1279:8D	4B	12	4C	82	13	6Ø	Α9	Ø9
1281:06	85	D3	Α9	16	85	D6	2Ø	В3
1289:10	E5	A2	ØØ	BD	9в	12	20	24
1291:D2	FF	E8	ΕØ	3A	DØ	F5	4C	97
1299:3B	15	Ø8	8E	9E	55	53	45	CØ
12A1:2Ø	53	54	49	43	4B	20	54	A5
12A9:4F	2Ø	53	45	4C	45	43	54	8E
12B1:2Ø	4C	45	56	45	4C	ØD	2Ø	9C
12B9:2Ø	2Ø	2Ø	2Ø	2Ø	20	5Ø	52	7Ø
12C1:45	53	53	20	54	52	49	47	8F
12C9:47	45	52	20	54	4F	20	53	A2
12D1:54	41	52	54	2Ø	48	15	29	75
12D9:10	DØ	ØВ	2Ø	4A	13	A9	40	CF
12E1:8D	15	DØ	4C	24	17	AD	ØØ	C9
12E9:DC	29	ØF	49	ØF	29	Ø3	C9	
12F1:Ø1	DØ	ØD	AD	El	Ø3	C9	ØF	Ø5
12F9:FØ	DA	EE	El	Ø3	4C	ØF	13	C3
13Ø1:C9	Ø2	DØ	DØ	AD	El	Ø3	C9	78
1309:02	9Ø	C9	CE	El	Ø3	AD	El	D2
1311:03	C9	ØA	BØ	ØE	18	69	3Ø	4B
1319:8D	C8	Ø6	A9	3Ø	8D	C7	Ø6	EØ
1319:6D	D5	12	18	69	26	8D	C8	6E
1329:06	A9	31	8D	C7	Ø6	4C		8Ø
1331:12	EE	E3	Ø3	DØ	FB	EE.	D5	Ø2
1339:03	AD	E4	Ø3				E4	
1341:A9	Ø8	8D	E4	C9	FF	DØ	F6	FF
1341:49	A2		A9	Ø3	AD	ØØ	DC	E9
1351:CA		4F		2Ø	9D	7Ø	Ø7	2C
1351:CA 1359:FB	10	FA	6Ø	EE	E3	Ø3	DØ	24
1361:03	EE	E4	Ø3	DØ	F6	EE	E5	2C
	AD	E5	Ø3	C9	Ø2	DØ	EC	46
1369:A9	ØØ	8D	E5	Ø3	8D	15	DØ	BD
1371:4C	9C	13	AD	El	Ø3	DØ	Ø3	El
1379:EE	El	Ø3	2Ø	73	12	4C	A9	18
1381:13	EE	4B	12	C9	ØF	DØ	Ø5	A8
1389:A9	ØØ	8D	4B	12	6Ø	A9	3Ø	80
1391:20	D2	FF	A9	35	2Ø	D2	FF	E6
1399:4C	11	Ø9	2Ø	1B	Ø8	AD	El	83
13A1:03	C9	ØF	FØ	Ø3	EE	El	Ø3	47
13A9:A9	6Ø	8D	21	13	8D	2F	13	CØ
13B1:2Ø	ØF	13	A9	4C	8D	21	13	96
13B9:8D	2F	13	2Ø	ΕØ	13	2Ø	CØ	2B
13C1:16	A9	FF	8D	15	DØ	AD	El	5F
13C9:03	85	Ø4	A9	ØØ	A2	CB	9D	AD
13D1:34	Ø3	CA	ΕØ	FF	DØ	F8	A5	15
13D9:04	8D	El	Ø3	4C	62	15	A9	91
13E1:ØE	85	D3	A9	16	85	D6	2Ø	1A
13E9:4A	13	2Ø	10	E5	A2	ØØ	BD	76
13F1:ØE	14	2Ø	D2	FF	E8	ΕØ	ØA	C4
13F9:DØ	F5	A9	6Ø	8D	6E	13	2Ø	AD
1401:55	13	Α9	8D	8D	6E	13	2Ø	13

1409:BA 14 4C 73 12 9E 47 45 1411:54 20 52 45 41 44 59 EE C6 1419:D4 Ø3 DØ FB EE D5 Ø3 AD C8 F1 A9 ØØ FF 1421:D5 Ø3 C9 Ø3 DØ 1429:8D D5 Ø3 EE ØD DØ AD ØD FØ 1431:DØ 49 FF 8D ØF D4 AD ØD 21 8D 54 1439:DØ C9 FF DØ DA A9 ØØ 1441:1B DØ 4C 14 A9 4Ø 8D 9Ø 68 1449:1B DØ 4C 18 14 AD DØ Ø3 3A 1451:85 FC A9 60 8D DD 13 2Ø EØ 1459:A9 13 A9 4C 8D DD 13 **A5** C7 1461:FC 8D DØ Ø3 4C ØВ 8D DA 1469:15 DØ AD 18 Ø7 C9 ЗØ DØ 18 1471:15 AD 17 Ø7 C9 3Ø DØ ØЗ 96 Ø7 5B 14 A9 39 8D 18 1479:4C FC 17 Ø7 4C 8A 14 CE 1481:CE 18 D6 1489:07 A9 40 8D 15 DØ A9 A9 69 4E 1491:8D ØC DØ A9 9E 8D ØD DØ AD 17 Ø7 1499:A9 8Ø 8D FE Ø7 14A1:8D 9Ø 13 AD 18 Ø7 8D 95 7F 4E 14 A9 3Ø 8D 9Ø 33 14A9:13 4C 14B1:13 A9 35 8D 95 13 4C C7 14B9:ØE A9 ØC 85 D3 A9 16 85 24 A2 ØØ 14C1:D6 20 10 E5 BD D5 24 D2 FF E8 EØ 17 DØ 28 14C9:14 20 EC 14 Ø5 43 14D1:F5 4C 48 41 ED 54 2Ø 12 D7 14D9:4E 47 45 2Ø 4F 92 E9 11 9D 9D 9D CF 14E1:E9 20 B7 AD E1 Ø3 18 69 D2 14E9:98 B7 14F1:01 8D 86 DB 8D 87 DB 8D 5C 14F9:88 DB 60 20 4A 13 Α9 ØE 6B 1501:85 D3 A9 16 85 D6 2Ø 1Ø 51 2Ø D2 1509:E5 A2 00 BD 31 15 9B 1511:FF E8 EØ ØA DØ F5 EE D7 1519:03 DØ FB EE D8 03 DØ F6 D2 1521:EE D9 Ø3 AD D9 Ø3 C9 Ø5 **E7** 1529:DØ EC A2 ØØ 9A 4C ØD Ø8 73 1531:9F 47 41 4D 45 2Ø 4F 56 99 52 A9 ØE 8D DØ A9 BC 1539:45 15 1541:60 8D CB 0D 4C D5 12 2Ø 47 1549:95 ØD EE EC Ø3 DØ F8 EE 6A 1551:ED Ø3 AD ED Ø3 C9 Ø9 DØ E9 1559:EE A9 ØØ 8D ED Ø3 4C 37 89 1561:13 A9 4C 8D CB ØD A9 1Ø D7 Ø3 4A 8D 7E 15 1569:38 ED E1 ØB EE Cl 24 1571:EE 7E 15 4C C7 1579:03 AD C1 03 C9 Ø1 DØ F6 E3 1581:A9 ØØ 8D Cl Ø3 EE 34 Ø3 8D 1589:4C CA ØB 2Ø 97 17 C9 BØ 4D 1591:BØ F9 29 F8 18 69 Ø6 8D 47 1599:ØD 5Ø 2Ø 97 17 29 F8 18 43

15A1:69	Ø1	8D	ØC	5Ø	2Ø	D8	ØC	F3
15A9:AØ	ØØ	Bl	FD	C9	E9	DØ	DB	AD
15B1:AD	ØC	5Ø	8D	ØE	DØ	AD	ØD	B4
15B9:5Ø	8D	ØF	DØ	A9	4C	8D	FØ	E8
15C1:ØC	4C	CD	15	A9	6Ø	8D	FØ	EA
15C9:ØC	4C	ØA	16	A9	DØ	8D	E3	3F
15D1:ØC	8D	DA	ØC	4C	C7	ØВ	AD	C6
15D9:C5	Ø3	FØ	Ø3	4C	37	16	EE	5ø
15E1:CA	Ø3	AD	CA	Ø3	C9	7Ø	DØ	85
15E9:17	A9	ØØ	8D	CA	Ø3	EE	CB	EE
15F1:Ø3	AD	CB	Ø3	DØ	ØA	AD	ØF	СВ
15F9:DØ	FØ	Ø8	A9	ØØ	8D	ØF	DØ	89
1601:4C	72	16	2Ø	C5	15	4C	Ø1	DØ
1609:16	A9	5ø	8D	E3	ØC	8D	DA	D2
1611:0C	4C	8C	15	AD	ØC	DØ	CD	46
1619:ØE	DØ	DØ	17	AD	ØD	DØ	CD	1D
1621:ØF	DØ	DØ	ØF	A2	Ø2	2Ø	EC	5E
1629:16	A9	7F	8D	C5	Ø3	A9	ØØ	21
1631:8D	ØF	DØ	4C	D8	ØC	EE	C6	62
1639:03	AD	C6	Ø3	DØ	30	EE	C7	48
1641:03	AD	C7	Ø3	C9	16	DØ	26	Fl
1649:A9	ØØ	8D	C7	Ø3	EE	C8	Ø3	EØ
1651:AD	C8	Ø3	C9	ØВ	90	Ø8	AD	DB
1659:2D	DØ	49	Ø8	8D	2D	DØ	AD	6A
1661:C8	Ø3	C9	1ø	DØ	Ø8	A9	ØØ	E6
1669:8D	C8	Ø3	8D	C5	Ø3	4C	D5	7Ø
1671:16	EE	2E	DØ	A2	ØA	BD	ØØ	EF
1679:DØ	18	7D	9F	16	38	ED	ØC	37
1681:DØ	C9	ø5	ВØ	12	BD	Ø1	DØ	8E
1689:18	7D	ΑØ	16	38	ED	ØD	DØ	FA
1691:C9	Ø5	BØ	Ø3	4C	68	17	CA	27
1699:CA	1ø	DB	4C	95	ØD	Ø4	ØB	63
16A1:FF	ØA	FF	ØA	FF	ØA	Ø5	Ø5	28
16A9:03	Ø4	A9	6Ø	8D	6E	13	A9	89
16B1:00	8D	ØF	D4	20	55	13	A9	96
16B9:8D	8D	6E	13	4C	46	14	EE	Al
16C1:95	13	AD	95	13	C9	3A	DØ	91
16C9:Ø8	A9	3Ø	8D	95	13	EE	90	AA
16D1:13	4C	7A	ØB	EE	Cl	Ø3	AD	CC
16D9:C1	Ø3	C9	Ø4	DØ	Ø8	A9	ØØ	1B
16E1:8D	Cl	Ø3	4C	C7	ØB	4C	D8	46
16E9:15	A2	Ø3	FE	Ø3	Ø7	BD	Ø3	4C
16F1:Ø7	C9	3A	DØ	Ø8	A9	3Ø	9D	4D
16F9:03	Ø7	CA	10	EE	4C	16	17	AF
17Ø1:CØ	ØØ	DØ	ØE	84	FC	A4	Ø4	EF
1709:20	EA	16	88	CØ	Ø1	DØ		
1711:A4	FC	A5	Ø4	6Ø	A2	Ø4	F8 BD	F1 19
1719:03	Ø7	9D	F3	Ø8	CA	10	F7	Ø1
1721:4C	34	17	A2	Ø4	A9	3Ø	9D	54
1729:03	Ø7	CA	10	FA	20	73	12	46
1731:4C	74	13	A2	ØØ	38	BD	B4	40 40
1739:06	FD	Ø3	Ø7	3Ø	Ø9	E9	Ø1	35
•			~ .		~		~ -	

1741:10 13 E8 E0 05 D0 EE A2 53 BD ØЗ Ø7 9D **B4** Ø6 9D 1749:04 1751:E3 Ø8 CA F4 60 AD 36 1Ø 88 C9 1759:Ø3 C9 Ø6 9Ø Ø7 15 BØ 7 F 1761:03 4C 98 16 4C AB 16 AD 83 ØЗ DØ EA 4C AB 16 A9 1769:FE 87 1771:3Ø 8D 7C 17 **A2** ØØ AD 1B A7 1779:D4 9D ØØ 5Ø E8 DØ F7 EE E7 1781:7C 17 AD 7C 17 C9 5Ø DØ 82 17 1789:EB A9 30 8D BØ ØØ 2C Α9 1791:8D AF 17 4C В2 17 AD AF 17 1799:17 18 69 Ø1 8D AF 17 AD 9D 4F 17A1:BØ 17 69 ØØ C9 DØ Ø2 4A 3Ø 8D BØ 17 AD CF 3Ø 17A9:A9 **B4** 17B1:60 A9 E1 8D 14 D4 A9 21 17B9:8D 12 D4 A9 ØF 8D 18 D4 1C 17C1:A9 ØØ 8D Ø5 **D4** 8D FE 2F DØ 17C9:8D FF 2F 4C F9 18 AE 36 2D 17 8D ØF D4 17D1:Ø3 BD DB 4C 7C 17D9:EØ ØB ØØ 8Ø 7C 78 74 7Ø 62 17E1:6E 6C 6A 68 66 ØØ ØØ ØØ 69 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 18 17E9:00 Ø9 17F1:00 ØØ ØØ ØØ A9 Ø8 8D B1 17F9:D4 8D ØA D4 A9 77 8D Ø6 DØ 18Ø1:D4 8D ØD D4 A9 41 8D ØB 66 1809:D4 A9 4C 8D DD 13 A9 FE ØØ 1811:8D ØF D4 4C C2 18 AD FE FB 1819:2F C9 Ø1 DØ 1B AE FF 2F 43 28 C9 1821:BD BA 18 8D Ø8 D4 Α9 1829:8D Ø1 D4 A9 81 8D Ø4 D4 B4 18 A7 1831:A9 8Ø 8D Ø4 D4 4C В7 1839:C9 ØF DØ 28 A9 4Ø 8D ØВ 23 1841:D4 A9 41 8D ØB D4 A9 1E 64 1849:8D Ø1 D4 EE FF 2F AE FF 1851:2F BD BA 18 8D Ø8 D4 A9 41 1859:81 8D Ø4 D4 A9 8Ø 8D Ø4 E9 1861:D4 4C В7 18 C9 1Ø DØ ØF 1869:AE FF 2F BD BA 18 18 69 82 1871:02 8D 08 D4 4C B7 18 C9 8F 1879:18 DØ 23 A9 4Ø 8D ØB D4 ØC 1881:A9 41 8D ØB D4 AE FF 2F C9 1889:BD BA 18 18 69 Ø4 8D Ø8 4A 1891:D4 A9 81 8D Ø4 D4 A9 8Ø E6 1899:8D Ø4 D4 4C В7 18 C9 1E CØ 2F FF A9 ØØ 8D CA 18A1:DØ 14 EE 18A9:FE 2F AD FF 2F C9 Ø8 DØ 18B1:05 A9 ØØ 8D FF 2F 4C D3 DØ Ø8 ØC 10 14 10 ØC В5 18B9:18 Ø4 18C1:Ø8 78 Α9 D9 8D 14 Ø3 A9 53 18C9:18 8D 58 4C F1 15 ØЗ Α9 ØØ 2F 4C 31 EA 64 18D1:33 ØC EE FE 18D9:EE FD 2F AD FD 2F 29 Ø1 C1

18E1:DØ Ø3 4C 31 EA 4C 17 18 A6 18E9:AD 8D Ø2 DØ Ø3 4C 77 15 EE 18F1:A9 ØØ 8D ØF D4 4C E9 18 5D 18F9:A9 2B 8D 18 Ø3 A9 15 8D 73 19Ø1:19 Ø3 A9 ØØ 8D 1Ø DØ 8D 91 19Ø9:1B DØ 4C F5 17 ØØ ØØ ØØ ØE

Program 5 **Bump-N-Run**

Once you have a copy of "MLX" typed in and saved to tape or disk, load and run it. You'll have to provide a starting address and an ending address. For "Bump-N-Run," the addresses are

Starting Address: C000 Ending Address: C69F

Save a copy to disk or tape when you've finished typing, and before you quit MLX.

Bump-N-Run

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
CØØØ:A9 ØØ 8D 2Ø DØ 8D 21 DØ D9
C008:8D 20 C7 8D 21 C7 AD 16 C3
CØ10:03 8D 18 03 AD 17 03 8D 07
CØ18:19 Ø3 A9 14 8D 18 DØ A9 75
CØ2Ø:8Ø 8D 91 Ø2 A9 93 2Ø D2 46
CØ28:FF A9 ØØ A2 8Ø 9D 8Ø 3F F8
CØ3Ø:CA 1Ø FA A9
                 18 8D 99
                          3F 7E
CØ38:8D A2 3F A9 3C 8D 9C 3F
CØ40:8D 9F 3F A2 33 BD 4C
                          C6 72
CØ48:9D C4 3F CA 10 F7 20
CØ50:C5 78 A9 Ø5 8D 14 Ø3 A9 C4
CØ58:C2 8D 15 Ø3 58 2Ø 8Ø C2 78
CØ6Ø:A9 FF 8D 18 C7 A9 ØØ 8D 5C
CØ68:15 C7 8D 16 C7 8D 17 C7 E3
CØ70:8D 1F C7 8D 19 C7 8D 1A 6F
CØ78:C7 A2 Ø5 A9 ØØ 9D ØØ C7 FF
CØ8Ø:9D Ø6 C7 A9 5A 9D ØC C7 ØF
CØ88:CA 10 FØ AD 16 C7 29 Ø3 91
CØ90:C9 Ø3 DØ 5Ø AD 15 C7 DØ F8
CØ98:48 AE ØØ C7 AC Ø1 C7
                          AD ØD
CØAØ:02 C7 8D ØØ C7 AD Ø3 C7 89
CØA8:8D Ø1 C7 8E Ø2 C7 8C Ø3 5E
CØBØ:C7 AD 17 C7 FØ 1B C9 Ø1 69
CØB8:FØ ØD A9 Ø1 8D 17 C7 A9 3D
CØCØ:ØB 8D 15 DØ 4C D1 CØ A9 AF
CØC8:03 8D 17 C7 A9 13 8D 15
CØDØ:DØ A2 Ø3 BD Ø6 C7 9D ØC 36
CØD8:C7 CA 10 F7 A9 Ø1 8D 15 F3
```

CØEØ:C7 4C 2A C1 AD 17 C7 DØ CØE8:18 AD Ø4 C7 CD 19 C7 12 DØ CØFØ:ØB AD Ø5 C7 CD 1A C7 DØ В7 CØF8:03 4C Cl Ø1 Α9 FF 8D 18 CB C100:C7 A9 ØØ 8D 15 C7 AD 16 E3 C1Ø8:C7 2D 18 C7 29 C9 Ø7 Ø5 CllØ:DØ ØA A9 Ø1 8D 17 C7 A9 C5 Cl18:0B 8D 15 DØ C9 Ø6 DØ ØA 46 C120:A9 Ø3 8D 17 C7 **A9** 13 8D F4 C128:15 DØ A2 ØØ 8E 14 C7 A9 BC C130:09 8D 12 C7 ΑD Ø1 DC 8D 13 C138:13 C7 20 DF C2 A2 Ø2 8E 6C C140:14 C7 A9 12 8D 12 C7 AD Ø8 C148:00 DC 8D 13 C7 2Ø DF C2 27 C150:A2 Ø4 8E 14 C7 Α9 24 8D F3 C158:12 C7 AD Ø4 C7 8D 19 C7 3B C160:AD 05 C7 8D 1A C7 BD ØC 45 C168:C7 DD Ø6 C7 FØ Ø6 DE ØC ED 7E Cl A9 5A 9D ØC D4 C170:C7 4C C178:C7 AØ Ø2 2Ø E4 C3 EE 14 72 C180:C7 AE 14 C7 BD ØC C7 DD 1E C188:06 C7 FØ Ø6 DE ØC C7 4C 82 C190:02 C2 A9 5A 9D ØC C7 AØ ED C198:02 20 20 C4 AE 1F C7 FØ E7 ClA0:61 A9 ØØ 8D 15 DØ FE 1F 21 Cla8:C7 A2 Ø1 18 2Ø FØ FF ΑE CD ClBØ:lF C7 BD 1F C7 ØA AA BD D8 C1B8:80 C6 20 D2 FF E8 BD 80 FE C1C0:C6 20 D2 FF A2 64 AØ FF Fl C1C8:88 DØ FD CA DØ F8 AE 1F 18 C1DØ:C7 BD 1F C7 C9 ØF DØ 27 ClD8:A2 ØC AØ 1Ø 18 20 F0 $\mathbf{F}\mathbf{F}$ E8 C1EØ:A2 2C 2Ø E3 C5 A2 ØE ΑØ 78 C1E8:0B 18 20 F0 FF A2 41 20 38 Clf0:E3 C5 AD Ø1 DC ØD ØØ DC 95 C1F8:29 10 D0 F6 4C ØØ CØ 4C CE C200:5D C0 4C 8B CØ AD 1E DØ 7Ø C208:8D 16 C7 29 Ø3 C9 Ø3 DØ 7 B C210:0E A2 00 20 22 C2 E8 2Ø 55 C218:22 C2 A9 ØF 8D 19 DØ 4C 44 C220:31 EA BD ØØ DØ DD Ø2 DØ 83 C228:FØ 55 10 2B DE 00 D0 DE A7 C230:06 DØ 10 ØC EØ Ø1 FØ Ø8 A4 C238:A9 F6 2D 10 D0 8D 1Ø DØ A4 C240:FE 02 D0 FE 08 D0 D0 37 2C C248:EØ Ø1 FØ 33 **A9** 12 ØD 1Ø 8F C250:D0 8D 10 D0 4C 7F C2 95 FEC258:00 DØ FE 06 DØ DØ 0C EØ 15 C260:01 FØ Ø8 A9 Ø9 ØD 1Ø DØ AB C268:8D 10 D0 DE 02 D0 DE Ø8 D9 C270:DØ 1Ø ØC EØ Ø1 FØ Ø8 A9 77

C278:ED 2D 10 D0 8D 10 D0 60 FD C280:A9 4A 8D 00 DØ 8D Ø6 DØ В8 C288:A9 9Ø 8D Ø1 DØ 8D Ø3 DØ 5C C290:8D 05 D0 8D 07 D0 8D 09 B0 C298:DØ 8D ØB DØ A9 ØF 8D Ø2 FE C2AØ:DØ 8D Ø8 DØ A9 AC 8D ØA 25 C2A8:DØ 8D Ø4 DØ A9 12 8D 1Ø 48 C2BØ:DØ A9 FF 8D F8 Ø7 8D F9 DA C2B8:07 A9 FE 8D FA 07 8D FB EF C2CØ:07 8D FC 07 A9 04 8D 27 C2C8:DØ A9 Ø7 8D 28 DØ A9 Ø1 В3 C2DØ:8D 29 DØ 8D 2A DØ 8D 2B 35 Ø7 8D C2D8:DØ A9 15 DØ 6Ø BD 55 C2EØ:ØC C7 DD Ø6 C7 FØ ØC DE 73 C7 C2E8:ØC C7 4E 13 4E 13 C7 C6 C2FØ:4C ØØ C3 A9 5A 9D ØC C7 D8 C2F8:20 AD C3 A0 ØØ 2Ø E4 C3 8A 14 C7 AE 14 C7 C300:EE BD ØC 2F C3Ø8:C7 DD Ø6 C7 FØ ØC DE ØC A9 C310:C7 4E 13 C7 4E 13 C7 4C 88 C318:27 C3 A9 5A 9D ØC C7 2Ø CB C320:AD C3 AØ ØØ 2Ø 2Ø C4 AD 3C C328:14 C7 4D 17 C7 DØ 7D AE F1 C7 BØ Ø8 BD C33Ø:14 C7 4E 13 7D C338:1B C7 FØ ØВ 4C AC C3 A9 54 C340:00 9D 1B C7 4C AC C3 BD 69 C348:00 C7 8D 05 C7 BD Ø6 C7 CC C350:8D ØB C7 BD FFC6 8D Ø4 7Ø C358:C7 BD Ø5 C7 8D ØA C7 A9 1E C360:00 9D FF C6 9D ØØ C7 9D D5 C368:Ø5 C7 9D Ø6 C7 BD ØØ DØ 7E C370:8D 05 D0 8D ØB DØ BD FF ØA C378:CF 8D Ø4 DØ 8D ØA DØ AD BC 2D C38Ø:12 C7 1Ø DØ FØ ØB AD В7 C388:10 DØ 09 24 8D 10 DØ 4C 4A C390:9A C3 AD 10 DØ 29 DB 8D 7D C398:10 DØ A9 Ø7 8D 15 DØ A9 ØE C3AØ:00 8D 17 C7 AD 12 C7 49 79 C3A8:FF 8D 18 C7 60 AC 14 C7 **B8** C3BØ:B9 ØØ C7 DØ Ø5 A2 ØØ 4C 1A C3B8:C5 C3 29 80 FØ Ø5 A2 Ø1 23 C3CØ:4C C5 C3 A2 Ø2 BC F9 C5 3F C3C8:4E 13 C7 BØ Ø3 BC FC C5 ØB 13 C7 BC FF C5 C3DØ:4E ВØ Ø3 19 14 C7 98 18 7D ØØ C3D8:AE C7 BD C3E0:9D 00 C7 6Ø BD ØØ C7 FØ A4 C3E8:33 29 80 F0 1A BD Ø1 DØ ØE C3FØ:D9 Ø2 C6 BØ Ø6 20 ØE C5 5C C3F8:4C 1C C4 DE Ø1 DØ DE Ø7 44 C400:D0 20 EA C4 4C 1F C4 BD C9 C408:01 DØ C8 D9 02 C6 90 06 4F

C410:20 ØE C5 4C 89 C4 FE Ø1 Ø9 60 4E C418:DØ FE Ø7 DØ 20 EA C4 C420:BD 00 C7 FØ 6Ø 1Ø 31 BD F3 Ø6 C6 BØ 13 C428:FF CF D9 AD ØE C430:10 D0 2D 12 C7 DØ ØB 2Ø 74 C438:B4 C4 BØ Ø6 20 ØE C5 4C D4 C440:85 C4 DE FF CF DE Ø5 DØ 6E 3F AD 12 C7 FF 2D 11 C448:10 49 C450:10 D0 8D 10 D0 4C 89 C4 58 C458:BD FF CF C8 D9 Ø6 C6 9Ø 4C C460:13 AD 10 D0 2D 12 C7 FØ 20 C468:0B 20 8D C4 B0 06 20 ØE 69 C470:C5 4C 89 C4 FE FF CF FE Ø4 ØD B5 DØ Ø9 AD 12 C478:05 D0 C7 C480:10 D0 8D 10 D0 20 EA C4 9A C488:60 20 EA C4 60 E0 05 DØ 55 C490:57 AD 17 C7 DØ 52 BD FF DB C498:CF C9 36 10 06 20 DB C4 C4AØ:4C B3 C4 C9 38 3Ø 3F A9 1D C4A8:9C 20 D2 FF A9 01 8D 1F 6E ØA 6Ø EØ Ø5 3Ø 7A C4BØ:C7 AØ DØ C7 DØ 2B BD FF C4B8:AD 17 CF Ø5 C4CØ:C9 24 3Ø Ø6 2Ø DB C4 4C E4 C4C8:DA C4 C9 2Ø 1Ø 18 A9 9E FE C4DØ:20 D2 FF A9 Ø2 8D 1F C7 Ø6 C4D8:AØ 23 60 AD 05 DØ C9 7B DC C4EØ:3Ø Ø6 C9 A6 10 Ø2 38 6Ø Ø1 C4E8:18 60 BD ØØ C7 3Ø ØD C9 31 Ø5 A9 52 C4FØ:52 ЗØ 9D ØØ C7 BB C7 6Ø C9 C4F8:9D Ø6 AE 10 Ø5 FF C500:A9 AE 9D ØØ C7 49 FF 9D CØ C5Ø8:Ø6 C7 FE Ø6 C7 6Ø BD ØØ Ø4 C510:C7 49 FF 9D ØØ C7 FE ØØ C8 C518:C7 6Ø A9 81 2Ø D2 FF A2 DB C520:00 A0 02 18 20 F0 FF Α9 Ø4 C528:BØ 2Ø D2 FF A2 21 2Ø C7 1Ø C530:C5 A9 AE 20 D2 FF A2 02 BE C538:20 FØ FF A9 ED 20 D2 FF C540:A2 21 2Ø C7 C5 2Ø 56 A9 BD C548:D2 FF A2 Ø1 C8 20 FØ FF 4A C550:A2 ØA 20 E3 C5 A2 Ø1 AØ 20 F0 FF A2 21 C558:ØF 2Ø E3 4F C560:C5 A2 Ø1 AØ 1C 2Ø FØ FF E4 C568:A2 15 2Ø E3 C5 A9 99 2Ø F4 C570:D2 FF A2 Ø3 AØ Ø2 2Ø FØ 28 C578:FF Α9 ВØ 20 D2 FF A2 21 83 C58Ø:2Ø C7 C5 A9 AE 2Ø D2 FF FC 20 FØ FF C588:A2 16 Α9 AD 20 20 C590:D2 FF A2 21 20 C7 C5 A9 41 C598:BD 20 D2 FF A2 04 20 F0 BB C5AØ:FF A9 Ø5 2Ø DØ C5 A2 1Ø 2C

Type It In

C5A8:20 FØ FF A9 Ø5 20 DØ C5 2B A9 63 C5BØ:A2 Ø4 ΑØ 25 2Ø FØ FF 20 C5 A2 2Ø C5B8:05 DØ 1Ø FØ CB C5CØ:FF A9 Ø5 20 D0 C5 60 A9 61 C5C8:CØ 2Ø D2 FF CA 1Ø F8 6Ø FF C5DØ:8D 22 C7 A9 DD 20 D2 FF 54 C5D8:E8 18 2Ø FØ FF CE 22 C7 39 C5E0:10 F1 60 BC ØA C6 CA BD 87 C5E8:ØA C6 20 D2 FF CA BD ØA ØD 20 D2 FF CA 88 C5FØ:C6 DØ F6 53 C5F8:60 00 01 FF FF FF FE Ø1 D3 C6ØØ:02 Ø1 4F D2 48 D9 2C 2D 15 C6Ø8:25 34 3Ø 2Ø 3A 45 4C 5Ø ØD C610:52 55 5Ø 9C Ø9 3Ø 2Ø 3A 73 C618:57 4F 4C 4C 45 59 9E Ø9 49 C620:4E 55 52 2D 4E 2D 5Ø 4D 5C C628:55 42 9F ØA 52 45 56 4F 29 C630:20 45 4D 41 47 9F Ø9 54 FB 2Ø C638:45 53 45 52 4F 54 2Ø 12 C640:45 52 49 46 20 53 53 45 CC C648:52 5Ø 9A 13 18 ØØ ØØ 18 7Ø C650:00 ØØ 18 ØØ ØØ 18 ØØ ØØ 41 C658:3C ØØ ØØ 66 ØØ ØØ C3 ØØ F1 C660:01 81 8Ø 3F ØØ FC 3F ØØ 45 **C3** C668:FC Ø1 81 8Ø ØØ ØØ ØØ FB C67Ø:66 ØØ ØØ 3C ØØ ØØ 18 ØØ 25 18 E4 C678:00 18 ØØ ØØ 18 ØØ ØØ C680:A0 3Ø AØ 31 AØ 32 33 D3 ΑØ C688:AØ 34 AØ 35 ΑØ 36 ΑØ 37 31 38 AØ 31 C690:A0 39 31 3Ø 31 C698:31 32 31 33 31 34 31 35 96

Program 6 Ringside Karate

After you've typed in "MLX" and saved it to tape or disk, load and run the program. It will ask you to provide two addresses before you can begin entering "Ringside Karate." The addresses are

Starting Address: 3000 Ending Address: 45BF

When you've finished typing in the game (it will probably take you more than one typing session), make sure you save a copy to tape or disk before exiting MLX.

Ringside Karate

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
3000:00 0F C0 00 15
                     5Ø ØØ
                           3F
          3F AØ ØØ
                     3F
                        ВØ
                           ØØ
                               31
3008:F0 00
3010:3B A8 00 3A A0 00
                        2A AØ D5
3018:00
        2A
           øø øø
                  3A
                     ØØ
                        ØØ
                           5E 33
3Ø2Ø:7Ø Ø1
           57 5C Ø1
                     75
                        57
                           Ø1
3Ø28:5D 55 Ø3 57 5A
                     ØØ D5
3Ø3Ø:ØØ 36 A8 ØØ 1D
                     7Ø ØØ
                           15 F2
3Ø38:7Ø ØØ
           15
              70 00
                     3F
                        FØ
                           ØF
           ØØ ØØ ØØ
                     ØØ
                        ØØ
                           ØØ AØ
3040:00
        ØØ
        ØØ
           00 00 00
                     ØØ
                        ØØ
                           ØØ A8
3048:00
3050:00
        ØØ
           ØØ ØØ ØØ
                     ØØ
                        ØØ
                           ØØ BØ
3058:00 00
           ØØ ØØ ØØ
                     ØØ
                        Ø2
                           ØØ BC
3Ø6Ø:ØØ Ø2 8Ø ØØ ØA
                     CØ
                        ØØ
                           6B 1Ø
                     7Ø
           6C ØØ ØØ
                        ØØ
                           ØØ
                               18
3068:00 00
3070:C0 00
           ØØ ØØ ØØ
                     ØØ
                        ØØ
                           ØØ
                               31
3078:00 00
           ØØ ØØ ØØ
                     ØØ
                        ØØ ØB E3
           7Ø ØØ 55
                     5C
                        ØØ
                           55 A5
3Ø8Ø:ØØ 15
                        57 Ø1
3088:5C Ø1
           55 57 Ø1
                     55
3Ø9Ø:55 57 Ø5 5F 55
                        7Ø 15
                     Ø5
           15 15 CØ
                        15 CØ
3098:05
        7Ø
                     Ø5
                               9Ø
30A0:05 15 C0 05
                  17
                     ØØ
                        Ø1
                            17
                               Ø3
                     17
                        ØF Ø1 AF
           17 ØØ Ø1
30A8:00 01
3ØBØ:17
        3F
           C1
               2B FF
                     FE
                        3F
                           CØ
                           ØF
                               C7
           ØØ ØØ ØØ
                     ØØ
                        ØØ
3ØB8:3F
        ØØ
30C0:00 00
           ØØ ØØ ØØ
                     ØØ
                        ØØ
                           ØØ
                               21
3ØC8:ØØ ØØ
            ØØ ØØ ØØ
                     ØØ
                        ØØ
                               29
30D0:00 00 C0 00 00 C0 00 00 4C
```

```
ØØ
                 70 00
30D8:C0
             ØØ
                         ØØ
                             7Ø
                                ØØ
                                    81
30E0:00
          7Ø
             ØØ
                 ØØ
                     7Ø
                         ØØ
                             ØØ
                                 7Ø
                                     51
3ØE8:00
          ØØ
              7Ø
                 ØØ
                     ØØ
                         7Ø
                             ØØ
                                 ØØ
3ØFØ:7Ø
          ØØ
             ØØ
                 AC
                     ØØ
                         ØØ
                             FC
                                 ØØ
                                    4E
30F8:00
          ØØ
             ØØ
                 ØØ
                     ØØ
                         ØØ
                             ØØ
                                 ØF
                                     68
3100:00
          15
              7Ø
                 ØØ
                     55
                         5C
                             ØØ
                                 55
                                     27
31Ø8:5F
          Ø1
              55
                 57
                     Ø1
                         55
                             57
                                 Ø1
                                    87
311Ø:55
          57
             Ø1
                 5F
                     55
                         Ø1
                             7Ø
                                 15
                                     AD
          7Ø
3118:Ø1
             15
                 Ø1
                     7Ø
                         Ø5
                             Ø1
                                 7Ø
                                    D3
                             Ø1
3120:05
          Ø1
              7Ø
                 Ø5
                     Ø1
                         5C
                                 Ø1
                                     20
3128:5C
          Ø1
              ØØ
                 57
                     Ø1
                         ØØ
                             5B
                                 Cl
                                    EE
                     BF
3130:00
          6F
             Fl
                 ØØ
                         FΕ
                             ØЗ
                                FØ
                                     9D
3138:ØF
          ØØ
             ØØ
                 ØØ
                     ØØ
                         ØØ
                             ØØ
                                 ØF
                                     31
3140:00
          ØØ
             ØØ
                 ØØ
                     ØØ
                         ØØ
                             ØØ
                                 ØØ
                                    A2
3148:FC
                 55
          ØØ
             Ø1
                     ØØ
                         ØЗ
                             FF
                                 ØØ
                                    AA
3150:03
          FA
             ØØ
                 Ø3
                         ØØ
                             Ø3
                     FB
                                 BA
                                    C3
                     Ø2
3158:00
          ØЗ
             AA
                 ØØ
                         AA
                             ØØ
                                 Ø2
                                    8D
316Ø:AØ
          ØØ
             Ø3
                     ØØ
                         Ø5
                 ΑØ
                             E7
                                 ØØ
                                     61
3168:15
          75
             ØØ
                 1D
                     55
                         ØØ
                             1D
                                 55
                                    BE
3170:00
          17
              55
                 ØØ
                     15
                         Α9
                             ØØ
                                 35
                                    C7
3178:A9
          ØØ
             ØF
                 57
                     ØØ
                         Ø1
                             57
                                 ØØ
                                    В9
3180:00
          ØØ
             ØØ
                 ØØ
                     ØØ
                         ØØ
                             ØØ
                                 ØØ
                                    E2
3188:00
          ØØ
             ØØ
                 ØØ
                     ØØ
                         ØØ
                             ØØ
                                 ØØ
                                    EΑ
3190:00
          ØØ
             ØØ
                 ØØ
                     ØØ
                         8Ø
                             ØØ
                                 ØØ
                                    F4
3198:00
          ØØ
             ØØ
                 ØØ
                     ØØ
                         ØØ
                             ØØ
                                 ØØ
                                    FA
31AØ:00
          ØØ
             ØØ
                 ØØ
                     FF
                         C2
                             8Ø
                                 55
                                    64
31A8:6A
          8Ø
             55
                 6A
                     8Ø
                         5F
                             CØ
                                 ØØ
                                     B4
31BØ:7Ø
          ØØ
             ØØ
                 CØ
                     ØØ
                         ØØ
                             ØØ
                                 ØØ
                                     57
31B8:00
          ØØ
             ØØ
                 ØØ
                     ØØ
                         ØØ
                             ØØ
                                 ØØ
                                     1B
                         FF
          Ø1
              57
                 ØØ
                     Ø3
                             ØØ
                                 Ø1
31CØ:00
                                     67
31C8:57
          ØØ
             Ø1
                 57
                     ØØ
                         Ø1
                             57
                                 ØØ
                                     1F
31DØ:Ø1
          55
             ØØ
                 Ø1
                     55
                                 55
                         ØØ
                             Øl
                                    1B
31D8:00
          Ø1
              5D
                 ØØ
                     Ø1
                         5C
                             ØØ
                                 Øl
                                    A1
31EØ:5C
          ØØ
             Ø5
                 5C
                     ØØ
                         15
                             7Ø
                                 ØØ
                                    ØD
31E8:55
          CØ
             Ø1
                 57
                     ØØ
                         Ø5
                             5C
                                ØØ
                                    88
31FØ:15
          7Ø
             ØF
                 ØA
                     7Ø
                         FF
                             Ø2
                                 AF
                                    B3
31F8:FF
          ØF
             FØ
                 ØØ
                     ØØ
                         ØØ
                             ØØ
                                 ØØ
                                     3D
3200:00
          ØØ
             ØØ
                 ØØ
                     ØØ
                         ØØ
                             ØØ
                                 ØØ
                                    64
3208:00
          ØØ
             ØØ
                 ØØ
                     CØ
                         ØØ
                             ØØ
                                 7Ø
                                    E2
3210:00
             5C
                         57
          ØØ
                 ØØ
                     ØØ
                             ØØ
                                 ØØ
                                    5D
3218:55
          CØ
             ØØ
                 15
                     CØ
                             35
                         ØØ
                                 CØ
                                    D9
3220:00
          35
             CØ
                 ØØ
                     Ø5
                         CØ
                             ØØ
                                Ø5
                                    1 A
             Ø5
3228:CØ
          ØØ
                 CØ
                     ØØ
                         Ø5
                             CØ
                                 ØØ
                                     2F
323Ø:C5
          CØ
             ØØ
                 C5
                     CØ
                         ØØ
                             FA
                                ВØ
                                    BØ
3238:ØØ
          FF
              FØ
                 ØØ
                     ØØ
                         ØØ
                             ØØ
                                 ØØ
                                     BA
3240:00
          3F
             ØØ
                 ØØ
                     55
                         4Ø
                             ØØ
                                 FF
                                     2Ø
3248:CØ
          ØØ
             FE
                 8Ø
                     ØØ
                         FE
                             CØ
                                 ØØ
                                     72
                     8Ø
325Ø:EE
         ΑØ
             ØØ
                 EA
                         ØØ
                             AA
                                8Ø
                                    DC
          8A
             ØØ
                 ØØ
                         ØØ
                             ØØ
3258:00
                     A8
                                 EA
                                     17
          ØØ
              7A
                 D5
                     Ø1
                         5F
                             55
                                 Ø1
326Ø:D5
                                     8D
3268:55 5Ø Ø5
                 55
                     5Ø
                         Ø5
                             55
                                 5Ø
                                    13
```

327Ø:15	D5	54	17	C5	57	15	Α5	2C
3278:5D	Ø5	Al	75	ØØ	ØØ	D5	ØØ	Ø4
3280:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	E4
3288:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	EC
329Ø:AØ	ØØ	ØØ	ΑØ	ØØ	Ø2	ВØ	ØØ	B8
3298:6A	CØ	ØØ	6B	ØØ	ØØ	6C	ØØ	Fl
32AØ:00	7Ø	ØØ	ØØ	CØ	ØØ	18	ØØ	57
32A8:Ø1	58	ØØ	15	58	ØØ	55	5C	BE
32BØ: Ø5	55	5C	15	55	FØ	55	5C	3F
32B8:00	55	.7Ø	ØØ	55	CØ	ØØ	ØØ	2E
32CØ:ØØ	Ø3	55	ØØ	ØØ	55	ØØ	ØØ	E5
32C8:55	ØØ	ØØ	55	ØØ	Ø1	55	ØØ	
								DB
32DØ:Ø1	57	ØØ	Ø1	5C	ØØ	Ø1	5Ø	DØ
32D8:00	Ø5	7Ø	ØØ	Ø5	7Ø	ØØ	Ø5	7B
32EØ:7Ø	ØØ	15	CØ	ØØ	15	CØ	ØØ	Ø2
32E8:15	CØ	ØØ	15	CØ	ØØ	17	ØØ	8D
32FØ:00	57	ØØ	ØØ	57	ØØ	ØØ	AB	91
32F8:ØF	ØØ	FF	FF	ØØ	ØØ	ØØ	ØØ	E4
33ØØ:57	ØØ	ØØ	7C	ØØ	ØØ	7Ø	ØØ	BA
3308:00	CØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	9E
3310:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	76
3318:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	7E
3320:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	86
3328:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	8E
3330:00	ØØ	ØØ	ØF	FC	ØØ	FF	FF	6F
3338:FF	FC	ØF	FF	ØØ	ØØ	ØØ	ØØ	BF
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3360:00	Ø5	75	55	Ø5	55	55	Ø5	39
3368:D5	FF	Ø5	75	CØ	Ø1	5F	CØ	3B
3370:03	55	6A	ØØ		6A			A8
3378:CØ				D5		ØØ	55	77
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3388:00	ØØ	ØØ	ØØ	BØ	ØØ	ØØ	AC	21
3390:00	ØØ	ВØ	ØØ	ØØ	ВØ	ØØ	ØØ	CF
3398:BØ	ØØ	ØØ	BØ	ØØ	ØØ	ВØ	ØØ	C3
33AØ:00	ВØ	ØØ	ØØ	ВØ	ØØ	ØØ	ØØ	B8
33A8:00	ØØ	ØØ	ØØ	ØØ	FØ	ØØ	ØØ	D2
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33E8:7Ø	ØØ	Ø1	7Ø	ØØ	Øl	7Ø	ØØ	93
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35BØ:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	1B
35B8:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	23
35CØ:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	2B
35C8:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	33
35DØ:ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	3в
35D8:00	ØØ	ØØ	ØØ	8Ø	ØØ	1E	ΑØ	24
35EØ:00	DE	A1	55	DE	AB	55	DF	BC
35E8:EA	D5	DF	AB	5F	DF	ED	55	ΑØ
35FØ:FF	FF	55	ØØ	Ø3	D5	ØØ	ØØ	75
35F8:FF	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	63
3600:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	6C
3608:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	74
3610:00	ØØ	ØØ	ØØ	ØØ	ØØ	Ø7	ØØ	8A
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3620:70	D5	5D	7ø	D5	71	7ø	D7	1A
3628:C1	7Ø	D5	7F	7Ø	75	55	F2	3B
363Ø:5D	55	5E	57	F5	5A	D6	AD	56
3638:5A	F6	AF	FF	3F	FØ	ØØ	ØØ	43
364Ø:ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	AC
3648:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	B4
3650:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	BC
3658:ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	C4
366Ø:BØ	ØØ	Ø2	BØ	ØØ	ØØ	AC	ØØ	C9
3668:00	2B	ØØ	ØØ	ØB	ØØ	ØØ	Ø3	FA
3670:00	ØØ	Ø3	ØØ	ØØ	ØØ	ØØ	ØØ	3D
3678:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØВ	EF
3680:03	FØ	ØØ	Ø5	54	ØØ	ØF	FC	B8
3688:00	ØA	FC	ØØ	ØE	FC	ØØ	2A	A5
369Ø:EC	ØØ			-			ØØ	F8
3698:00	8A	ØA ØØ	AC ØØ	ØØ	ØA ØØ	A8		Ø2
			-	A4		Ø7	9F	
36AØ:CØ	1F	7F	CØ	7F	F7	FØ	FF	EE
36A8:DF	FØ	AF	7F	FØ	AA	FD	CØ	1E
36BØ:2A	77	CØ	Ø3	DF	CØ	Ø3	FF	6Ø
36B8:00	Ø3	FF	ØØ	Ø1	57	ØØ	ØF	5A
36CØ:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	2D
36C8:00	ØØ	ØØ	ØØ	00	ØØ	ØØ	ØØ	35
36DØ:00	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	3D
36D8:00	ØØ	ØØ	ØØ	ØØ	Ø2	ØØ	ØØ	4D
36EØ:02	ØØ	ØØ	Ø2	ØØ	ØØ	Ø2	ØØ	72
36E8:00	Ø2	ØØ	ØØ	Ø2	ØØ	ØØ	Ø2	E7
36FØ:00	ØØ	Ø2	ØØ	ØØ	Ø5	ØØ	ØØ	Bl
36F8:ØF	ØØ	ØØ	ØØ	ØØ	ØØ	ØØ	ØF	FB
3700:02	AB	ØØ	ØA	AA	CØ	ØA	AA	12
37Ø8:CØ	2A	AA	BØ	2A	AA	BØ	2A	49
371Ø:AA	BØ	AA	FA	AC	AB	Ø2	AC	C9
3718:AB	Ø2	AC	AC	ØØ	AB	AC	ØØ	45
372Ø:AB	AC	ØØ	AB	BØ	ØØ	2B	ВØ	D6
3728:00	2B	BØ	ØØ	2B	ВØ	FØ	2B	AØ
373Ø:B3	FC	2B	7F	FF	17	FC	ØЗ	6E

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38D8:00 A8 00 00 A8 00 55 A9 0D 38E0:00 FD A7 C0 FF 5F C0 5F 30 38E8:FF F0 0F FF F0 0F FF FC 38 38F0:3F FF FC 7F FF 7C 9F FA C4 38F8:FC A7 FA F4 A9 FC 50 00 62 3900:00 00 2A 00 00 00 00 00 00 07 3910:00 00 00 00 00 00 00 00 00 00 00 3910:00 00 00 00 00 00 00 00 00 00 3918:00 00 00 00 00 00 00 00 00 00 3928:00 00 00 00 00 00 00 00 00 00 3930:00 00 00 00 00 00 00 00 00 00 3930:00 00 00 00 00 00 00 00 00 00 3930:00 00 00 00 00 00 00 00 00 00 3938:FF FF C0 3F FF									
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3CAØ:8D 25 DØ A9 ØØ 8D 26 DØ 31
3CA8:A2 ØØ A9 ØA 9D 27 DØ E8 5C
3CBØ:EØ Ø8 DØ F6 A9 CØ 8D F8 89
3CB8:07 A9 C1 8D F9 07 A9 C2 32
3CCØ:8D FA Ø7 A9 C3 8D FB Ø7 8D
3CC8:A9 D9 8D FC Ø7 A9 DA 8D 3Ø
3CDØ:FD Ø7 A9 DB 8D FE Ø7 A9 1D
3CD8:DC 8D FF Ø7 A9 B4 8D Ø5 D3
3CEØ:DØ 8D Ø7 DØ 8D ØD DØ 8D E2
3CE8:0F DØ A9 AØ 8D 01 DØ 8D FB
3CFØ:03 DØ 8D Ø9 DØ 8D ØB DØ Ø5
3CF8:A9 51 8D 00 D0 8D 04 D0 E1
3DØØ:A9 69 8D Ø2 DØ 8D Ø6 DØ 15
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3D10:A9 CC 8D ØA DØ 8D ØE DØ 8E
3D18:AD 00 DC 29 10 D0 35 A5 6B
3D20:FC DØ 31 AD ØØ DC 29 ØF 23
3D28:C9 ØA DØ Ø8 A9 E2 2Ø CE 8C
3D30:3E 4C BF 3D C9 09 D0 08 C4
3D38:A9 EA 20 CE 3E 4C BF 3D 13
3D40:C9 ØB DØ Ø8 A9 DE 20 CE D4
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3D90:D0 CE 0C D0 CE 0E D0 CA D0

3D98:DØ F1 EE FF Ø7 4C BF 3D FB 3DAØ:AD ØE DØ 38 C9 EB 90 03 35 3DA8:4C BF 3D A2 Ø5 EE Ø8 DØ CF 3DBØ:EE ØA DØ EE ØC DØ EE ØE BD 3DB8:DØ CA DØ F1 EE FF Ø7 AD BA 3DCØ:Ø1 DC 29 10 DØ 35 A5 FB BB 3DC8:DØ 31 AD Ø1 DC 29 ØF C9 31 3DDØ:06 DØ 08 A9 C9 20 AE 3E 88 3DD8:4C 6C 3E C9 Ø7 DØ Ø8 A9 2E 3DEØ:C5 20 AE 3E 4C 6C 3E C9 5A 3DE8:05 DØ 08 A9 D1 20 AE 3E 6Ø 3DFØ:4C 6C 3E A9 CD 2Ø AE 3E 99 3DF8:4C 6C 3E AD Ø1 DC 29 1Ø 35 3EØØ:FØ Ø4 A9 ØØ 85 FB AD Ø1 A3 3EØ8:DC 29 ØF C9 ØF DØ Ø3 4C C9 3E10:6C 3E 38 C9 08 90 25 AD 70 3E18:00 DØ 18 C9 2D BØ Ø3 4C E6 3E20:6C 3E A2 05 CE ØØ DØ CE ED 3E28:02 DØ CE 04 DØ CE 06 DØ 92 3E3Ø:CA DØ F1 EE FA Ø7 EE FA 4Ø 3E38:07 4C 6C 3E AD 08 D0 38 24 3E40:ED 00 D0 C9 14 B0 03 4C 20 3E48:6C 3E AD ØØ DØ 38 C9 DC 18 3E50:90 03 4C 6C 3E A2 05 EE 9B 3E58:00 D0 EE 02 D0 EE 04 D0 22 3E60:EE Ø6 DØ CA DØ F1 EE FA C3 3E68:07 EE FA 07 A2 64 2Ø BA 95 3E70:3F AD 1E DØ AA 29 12 C9 BØ 3E78:12 FØ 73 8A 29 48 C9 48 97 3E80:FØ 6C 8A 29 18 C9 18 FØ 7D 3E88:65 8A 29 42 C9 42 FØ 5E 3B 3E90:A5 FB A8 A9 CØ 20 AE 3E BØ 3E98:98 85 FB A5 FC A8 A9 D9 54 3EAØ:20 CE 3E 98 85 FC A2 32 C9 3EA8:20 BA 3F 4C 18 3D A2 ØØ 8B 3EBØ:9D F8 Ø7 18 69 Ø1 E8 EØ 9E 3EB8:04 DØ F5 A9 Ø1 85 FB AD 88 3ECØ:F8 Ø7 C9 CØ FØ Ø7 C9 D5 CD 3EC8:FØ Ø3 2Ø 6A 4Ø 6Ø A2 ØØ F1 3EDØ:9D FC Ø7 18 69 Ø1 E8 EØ BF 3ED8:04 DØ F5 A9 Ø1 85 FC AD AA 3EEØ:FC Ø7 C9 EE FØ E7 C9 D9 5A 3EE8:FØ E3 2Ø 6A 40 60 AD F8 59 3EFØ:07 C9 CD FØ 70 AD FC 07 67 3EF8:C9 E6 FØ 69 AD F8 Ø7 C9 F1 3F00:C0 D0 51 AD FC 07 C9 D9 89 3FØ8:FØ 4A 2Ø 44 40 A2 ØA CE 49 3F10:00 D0 CE 02 D0 CE 04 D0 57 3F18:CE Ø6 DØ CA DØ F1 EE FA 6D 3F20:07 EE FA 07 A9 D5 20 AE 41 3F28:3E A9 D9 20 CE 3E 20 10 2D

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               20 20 20
                          2Ø
                             2Ø ØB
4588:20 20 20 20 20 20 20 20 13
```

4590:20 20 20 20 20 20 20 20 1B 4598:20 20 20 91 91 92 00 9C CB 45A0:57 48 49 54 45 20 57 49 F9 45A8:4E 53 21 00 9C 42 4C 41 1B 45B0:43 4B 20 57 49 4E 53 21 74 45B8:00 00 00 00 00 00 00 00 43

Program 7 **Eagles and Gators**

You need a copy of "MLX" on tape or disk before you can type in "Eagles and Gators." When you load and run MLX, the prompts will ask you for a starting address and an ending address. For the Eagles and Gators data, they are as follows:

Starting Address: 0801 Ending Address: 1CE8

Follow the MLX instructions carefully, and be sure to save a copy of the data to disk or tape before you leave MLX.

Eagles and Gators

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

```
Ø8Ø1:18 Ø8 ØØ ØØ 9E 32 3Ø
Ø8Ø9:36 3A 8F
              22 14
                   14 14 14 Ø4
                       ØØ ØØ 39
Ø811:45 41 47 4C 45 53
Ø819:00 00 00 A0 00 A9 56 85 0C
Ø821:03 A9 Ø8 85 Ø4 A9 ØØ 85 C2
Ø829:Ø5 A9 4Ø 85 Ø6 A9 E3 85 AA
Ø831:FB A9 1C 85 FC A5
                       Ø3 E5 EF
Ø839:FB A5 Ø4 E5 FC BØ
                       13 B1 12
Ø841:Ø3 91 Ø5 E6 Ø3 DØ
                       Ø2 E6 8C
Ø849:Ø4 E6 Ø5 DØ Ø2 E6 Ø6 4C C6
Ø851:36 Ø8 4C ØØ 4Ø A9
                       3B 85 AC
Ø859:FB A9 Ø3 85 FC AØ BF A9 1E
Ø861:ØØ 91 FB 88 DØ F9 A9 FF 9F
Ø869:85 FB A9 D3 85 FC AØ 19 28
Ø871:A9 ØØ 91 FB 88 DØ F9 A9 6D
Ø879:93 2Ø D2 FF A9 ØØ 8D 2Ø 3E
Ø881:DØ 8D 21 DØ 18 AØ
                       ØB A2 8A
Ø889:Ø5 2Ø FØ FF A9 ØØ 85 FB 96
Ø891:A9 45 85 FC 2Ø AD 42 18 9C
Ø899:AØ ØC A2 Ø8 2Ø FØ
                       FF A9 40
Ø8A1:14 85 FB A9 45
                    85 FC 2Ø 91
Ø8A9:AD 42 2Ø 1E 43 18 AØ ØA CC
Ø8B1:A2 ØE 2Ø FØ FF A9
                       26 85 22
Ø8B9:FB A9 45 85 FC 20 AD 42 39
              18 AØ ØD A2 11 AE
Ø8C1:2Ø CD 42
Ø8C9:2Ø FØ FF A9 3B 85
                      FB A9 52
Ø8D1:45 85 FC AØ ØØ 2Ø BD 42 CD
```

Ø8D9:AD	Ø4	DC	8D	86	Ø2	Bl	FB	Dl
Ø8E1:C9	7E	FØ	Ø7	2Ø	D2	$\mathbf{F}\mathbf{F}$	C8	1A
Ø8E9:4C	8Ø	40	2Ø	9F	$\mathbf{F}\mathbf{F}$	2Ø	E4	6C
Ø8F1:FF	C9	ØØ	FØ	CE	C9	59	FØ	C4
Ø8F9:78	C9	4E	FØ	ØЗ	4C	6E	4Ø	F7
Ø9Ø1:A9	93	2Ø	D2	$\mathbf{F}\mathbf{F}$	2Ø	74	42	Α9
Ø9Ø9:2Ø	6D	41	18	ΑØ	11	A2	Ø9	C7
Ø911:2Ø	FØ	$\mathbf{F}\mathbf{F}$	Α9	4C	85	FΒ	Α9	24
Ø919:45	85	FC	2Ø	AD	42	18	ΑØ	18
Ø921:14	A2	ØB	2Ø	FØ	FF	A9	5E	82
Ø929:85	FB	A9	45	85	FC	2Ø	AD	94
Ø931:42	18	ΑØ	11	A2	ØF	2Ø	FØ	12
Ø939:FF	A9	68	85	FB	A9	45	85	Bl
Ø941:FC	2Ø	AD	42	2Ø	9F	FF	2Ø	53
Ø949:E4	FF	C9	ØØ	FØ	F6	C9	51	4F
Ø951:DØ	Ø3	4C	E2	FC	C9	31	ВØ	66
Ø959:Ø3	4C	EF	4Ø	C9	3A	BØ	E4	7F
Ø961:38	E9	3Ø	8D	3F	Ø3	A9	93	
Ø969:2Ø		FF	2Ø		4B	4C	ØF	D5
	D2			EA			-	6E
Ø971:54	A9	93	20	D2	FF	20	74	D7
Ø979:42	18	AØ	Ø4	A2	ØØ	2Ø	FØ	4D
Ø981:FF	A9	7C	85	FB	A9	45	85	7C
Ø989:FC	A9	Ø5	85	FD	A9	47	85	28
Ø991:FE	ΑØ	ØØ	Bl	FB	2Ø	D2	FF	6C
Ø999:A5	FB	C9	FF	9Ø	Ø2	E6	FC	ØE
Ø9A1:E6	FB	A5	FB	C5	FD	A5	FC	Ø9
Ø9A9:E5	FE	9Ø	E7	2Ø	EC	5Ø	AD	Ø2
Ø9B1:67	ØЗ	C9	ØØ	FØ	Ø9	AD	6A	E2
Ø9B9:Ø3	C9	ØØ	FØ	Ø2	DØ	ED	4C	4A
Ø9Cl:AB	40	Α9	4Ø		FB	Α9	ØЗ	65
Ø9C9:85	FC	Α9	E4	85	FD	ΑØ	Ø8	CE
Ø9D1:A5	FD	91	$\mathbf{F}\mathbf{B}$	E6	FD	E6	FD	23
Ø9D9:88	СØ	Ø1	DØ	F3	Α9	EA	91	3B
Ø9El:FB	ΑØ	Ø8	Α9	48	85	FB	Α9	AF
Ø9E9:ØD	91	FΒ	88	DØ	F9	Α9	5Ø	Ø1
Ø9F1:85	FΒ	Α9	F2	85	FD	ΑØ	Ø8	97
Ø9F9:A5	FD	91	FB	E6	FD	E6	FD	4B
ØAØ1:88	СØ	Øl	DØ	F3	Α9	F2	91	74
ØAØ9:FB	Α9	59	85	FB	ΑØ	Ø7	Α9	23
ØA11:00	91	FB	88	DØ	F9	A9	5B	AE
ØA19:8D	6C	ØЗ	A9	4E	8D	6E	Ø3	92
ØA21:A9	ØЗ	8D	6D	Ø3	8D	6F	Ø3	83
ØA29:A9	71	85	FB	A9	32	85	FD	FD
ØA31:AØ	Ø8	A5	FD	91	FB	18	69	42
ØA39:ØA	85	FD	88	DØ	F4	A9	79	23
ØA41:85	FB	A9	E6	85	FD	ΑØ	Ø8	28
ØA49:A5	FD	91	FB	38	E9	ØA	85	A4
ØA51:FD	88	DØ	F4	A9	81	85	FB	4A
ØA59:AØ	10	A9	FF	91	FB	88	A9	2E
ØA61:Ø1	91	FB	88	DØ	F4	A9	82	92
	-		-			227	-	2

ØA69:8D 92 Ø3 A9 8A 8D 94 Ø3 9A ØA71:A9 72 8D 96 Ø3 A9 7A 8D 53 ØA79:98 Ø3 A9 Ø3 8D 93 Ø3 8D 4E ØA81:95 Ø3 8D 97 Ø3 8D 99 Ø3 DØ ØA89:A9 1E 8D ØØ DØ A9 46 8D F2 ØA91:02 DØ A9 6E 8D Ø4 DØ A9 BE ØA99:96 8D Ø6 DØ A9 BE 8D Ø8 ØAA1:DØ A9 E6 8D ØA DØ A9 ØF 34 ØAA9:8D ØC DØ A9 37 8D ØE DØ 19 ØAB1:A9 CØ 8D 1Ø DØ A9 ØØ 8D 38 ØAB9:17 DØ 8D 1D DØ A9 Ø1 8D CD ØAC1:18 D4 EA A9 FF 8D 15 DØ 40 ØAC9:60 78 A9 00 8D 0E DC A9 69 ØAD1:8C 8D 14 Ø3 A9 4A 8D 15 E8 ØAD9:03 A9 ØF 8D 88 4A A9 96 EB ØAE1:8D 89 4A A9 ØØ 8D 8A 4A 98 ØAE9:A9 Ø3 8D 8B 4A AD 11 DØ F9 ØAF1:29 7F 8D 11 DØ AD 89 4A D7 ØAF9:8D 12 DØ A9 Ø1 8D 1A DØ 51 ØBØ1:58 6Ø AØ ØØ B1 FB C9 7E FE ØBØ9:FØ Ø7 2Ø D2 FF C8 4C AF F5 ØB11:42 6Ø EE Ø1 DØ CE Ø3 DØ E6 ØB19:CE ØD DØ EE ØF DØ 2Ø CA A9 ØB21:44 6Ø A9 1E 8D ØØ DØ A9 40 ØB29:46 8D Ø2 DØ A9 CØ 8D 1Ø 8E ØB31:DØ A9 ØF 8D ØC DØ A9 37 ØB39:8D ØE DØ A9 Ø7 8D 27 DØ DB ØB41:8D 2E DØ A9 ØD 8D 28 DØ 1E ØB49:8D 2D DØ A9 C3 8D 15 DØ 75 ØB51:A9 FF 8D F8 Ø7 8D FF Ø7 F2 ØB59:A9 E4 8D F9 Ø7 A9 EA 8D 11 ØB61:FE Ø7 6Ø EA EA AØ ØØ Bl FE ØB69:FB 91 FD C8 CØ 4Ø FØ Ø2 19 ØB71:DØ F5 6Ø A9 Ø8 85 FB A9 ØC ØB79:47 85 FC A9 CØ 85 FD A9 90 ØB81:3A 85 FE 2Ø 1Ø 43 **A9** 8Ø 59 ØB89:85 FD 2Ø 1Ø 43 A9 48 85 BD ØB91:FB A9 ØØ 85 FD A9 3B 85 FA ØB99:FE 20 10 43 Α9 40 85 FD C4 ØBA1:A9 3A 85 FE 2Ø 1Ø 43 A9 2D ØBA9:88 85 FB A9 ØØ 85 FD 2Ø Bl ØBB1:1Ø 43 A9 4Ø 85 FD A9 3B 8C ØBB9:85 FE 20 10 43 A9 C8 85 20 10 43 ØBC1:FB A9 8Ø 85 FD 7C ØBC9:A9 CØ 85 FD A9 39 85 FE Bl ØBD1:2Ø 1Ø 43 A9 Ø8 85 FB A9 F6 ØBD9:48 85 FC A9 8Ø 85 FD 20 E5 ØBE1:10 43 A9 CØ 85 FD A9 3B C4 20 10 43 A9 48 85 5E ØBE9:85 FE ØBF1:FB A9 4Ø 85 FD A9 39 85

85 ØBF9:FE 2Ø 1Ø 43 Α9 ØØ ØCØ1:A9 3C 85 FE 2Ø 1Ø 43 A9 ØF ØCØ9:88 85 FB**A9** 40 85 FD 2Ø 15 43 A9 ØØ 85 FD A9 39 ØC11:1Ø ØC19:85 FE 2Ø 1Ø 43 **A9 C8** 85 90 ØC21:FB A9 48 85 FC **A9** 40 85 97 ØC29:FD A9 3E 85 FE 2Ø 1Ø 43 **A6** ØC31:A9 ØØ 85 2Ø 1Ø 43 FD **A9** ØC39:Ø8 85 FBΑ9 49 85 FC Α9 ØC41:8Ø 85 FD 2Ø 10 43 **A9** CØ 5E ØC49:85 FD Α9 3D 85 FE 2Ø 1Ø 25 ØC51:43 A9 48 85 FB A9 80 85 E3 ØC59:FD 2Ø 1Ø 43 A9 CØ 85 FD Ø8 2Ø ØC61:A9 3E 85 FE 1Ø 43 Α9 EF ØC69:88 85 FB Α9 ØØ 85 FD Α9 FC 85 2Ø ØC71:3F FE 1Ø 43 **A9** 4Ø 8D 3D 85 FE 2Ø 55 ØC79:85 FD A9 1Ø ØC81:43 A9 C8 85 FBΑ9 ØØ 85 23 ØC89:FD 2Ø 10 43 Α9 4Ø 85 FD 36 ØC91:A9 3F 85 FE 2Ø 1Ø 43 Α9 ØC99:08 85 FB **A9** 4A 85 FC A9 3D ØCA1:CØ 85 FD A9 3C 85 FE 2Ø EB ØCA9:10 43 A9 8Ø 85 FD Α9 3F 8E 43 ØCB1:85 FE 2Ø 1Ø A9 48 85 28 ØCB9:FB A9 CØ 85 2Ø FD 10 43 **7E** A7 ØCC1:A9 8Ø 85 FD A9 3C 85 FE 1Ø 43 Α9 ØF Ø5 ØCC9:20 8D **D4** 86 ØCD1:8D ØC D4 8D 13 D4 Α9 FØ 57 ØCD9:8D Ø6 D4 8D ØD D4 8D 14 98 ØCE1:D4 A9 3F 8D ØØ **D4 A9** 18 ØCE9:8D Ø1 D4 A9 42 8D Ø7 **D4** ØCF1:A9 Ø6 8D Ø8 D4 Α9 ØC 8D 85 ØCF9:ØE D4 A9 Ø6 8D ØF D4 Α9 DF ØDØ1:15 8D Ø4 D4 8D ØB D4 8D A6 ØDØ9:12 D4 A9 3F 8D 18 D4 Α9 AA ØD11:F7 8D 17 **D4** A9 22 8D 16 Cl ØD19:D4 A9 ØF 8D 15 D4 6Ø AD 2D ØD21:3E Ø3 C9 2F FØ Ø4 EE 3E FA ØD29:03 6Ø A9 ØØ 8D 3E Ø3 EE ØD31:3F Ø3 AD 3F ØЗ 8D ØE D4 94 ØD39:CE 4Ø ØЗ AD 4Ø ØЗ 8D 16 45 ØD41:D4 AD 3F ØЗ C9 35 9Ø Ø6 18 8D Ø1 ØD49:A9 **D4** 6Ø AD 3F C2 8D Ø1 ØD51:03 **D4** 6Ø 8E Ø8 9F AA ØD59:00 2Ø 45 41 47 4C 45 53 81 ØD61:20 26 2Ø 47 41 54 4F 52 D9 2Ø ØD69:53 92 **7E** ØØ ØØ ØØ ØØ 6F ØD71:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 8**B** ØD79:00 ØØ ØØ 9F 57 41 4E 54 3E ØD81:20 49 4E 53 54 52 55 43

ØD89:54 49 4F 4E 53 2Ø 3F 7E Ø7 ØD91:5Ø 52 45 53 53 2Ø 12 59 DE 2Ø 52 2Ø 92 ØD99:92 4F 12 4E 8C ØDA1:7E 9Ø 5Ø 49 43 4B 2Ø 53 98 ØDA9:4B 49 4C 4C 2Ø 4C 45 56 1D ØDB1:45 4C 7E 28 20 31 20 63 3D ØDB9:20 39 2Ø 29 7E 9E 5Ø 52 2A ØDC1:45 53 53 2Ø 12 51 92 2Ø DA ØDC9:20 54 2Ø 51 55 4F 49 54 BB ØDD1:7E 9Ø 12 77 11 9D 2Ø 11 59 ØDD9:9D 9D ØØ ØØ 2Ø 2Ø 2Ø 92 **7E** ØDE1:63 69 11 9D 7B 91 91 5Ø 99 ØDE9:4C 55 47 2Ø 4A 4F 59 53 FF ØDF1:54 49 43 4B 53 2Ø 49 4E Al ØDF9:2E 2E 11 11 7B 91 9D 75 BC ØEØ1:63 63 63 63 12 2Ø 2Ø 2Ø BB ØEØ9:91 9D 9D 2Ø 91 9D 69 8D 6E ØE11:11 11 11 ØØ 2Ø 12 5Ø 4F 55 ØE19:52 54 20 32 20 46 4F 52 **A5** ØE21:2Ø 45 41 47 4C 45 53 92 EB ØE29:2Ø 2Ø 2Ø 12 5Ø 4F 52 54 2Ø 46 4F ØE31:2Ø 31 52 2Ø 47 5D ØE39:41 54 4F 52 53 92 8D 11 2B ØE41:00 20 43 4C 41 4D 5Ø 2Ø 92 52 20 55 52 ØE49:59 4F 43 45 AD 55 ØE51:41 54 52 45 53 20 54 FE 54 48 45 ØE59:4F 2Ø 2Ø 42 4F В2 52 2Ø ØE61:52 44 45 42 59 8D CF ØE69:11 2Ø 5Ø 52 45 53 53 49 AC ØE71:4E 47 20 12 46 49 52 45 EC ØE79:2Ø 42 55 54 54 4F 4E 92 35 ØE81:2Ø 57 48 45 4E 2Ø 54 48 C4 ØE89:45 59 20 48 49 54 20 49 4C ØE91:54 69 11 9D 62 11 9D 9D 5E ØE99:6D 62 6E 11 9D 9D 2A 11 AC ØEA1:9D 7A 8D 91 91 42 4F 20 D6 ØEA9:52 44 45 52 2Ø 4F 56 4D F8 ØEB1:45 53 20 57 48 45 4E 2Ø D2 44 45 ØEB9:53 49 53 2Ø 41 52 9E ØEC1:45 2Ø 55 4E 45 51 55 41 73 ØEC9:4C 8D 9F 11 11 2Ø 20 20 DD ØED1:4D 4F 56 45 2Ø 52 49 47 AB ØED9:48 54 4F 52 2Ø 2Ø 4C 45 19 ØEE1:46 54 2Ø 54 4F 2Ø 43 4F 5Ø ØEE9:4E 54 52 4F 4C 2Ø 41 8D 74 ØEF1:11 2Ø 20 20 20 2Ø 2Ø 2Ø 86 ØEF9:20 2Ø 44 49 46 46 45 52 73 ØFØ1:45 4E 54 2Ø 43 52 45 41 11 ØFØ9:54 55 52 45 8D 11 11 2Ø 38 ØF11:20 Ø5 57 49 4E 20 42 59 DØ

ØF19:2Ø	5Ø	55	53	48	49	4E	47	86
ØF21:2Ø	4F	5Ø	5Ø	4F	4E	45	4E	BE
ØF29:54	53	2Ø	4F	46	46	2Ø	53	1E
ØF31:43	52	45	45	4E	8D	11	11	5E
ØF39:9E	2Ø	2Ø	2Ø	2Ø	2Ø	12	5Ø	AA
ØF41:52	45	53	53	2Ø	46	49	52	78
ØF49:45	2Ø	42	55	54	54	4F	4E	9Ø
ØF51:2Ø	54	4F	2Ø	42	45	47	49	7F
ØF59:4E	92	ØØ	ØØ	ØØ	ØØ	ØЗ	8Ø	C9
ØF61:00	ØF	СØ	Ø2	1F	8Ø	Ø6	37	В9
ØF69:8Ø	ØЗ	7D	8Ø	Ø1	FF	ΑØ	ØØ	89
ØF71:FF	3Ø	ØØ	7F	ΕØ	ØØ	7F	ØØ	99
ØF79:00	7F	ΕØ	ØØ	FF	6Ø	Ø1	FE	16
ØF81:00	Ø3	3E	ØØ	Ø6	3E	ØØ	Ø4	55
ØF89:1E	ØØ	ØØ	1C	ØØ	ØØ	1E	ØØ	B4
ØF91:00	ØE	Ø8	ØØ	ØF	3Ø	øø	Ø3	7ø
ØF99:EØ	ØØ	ø1	8Ø	ØØ	ØØ	ØC	ØØ	68
ØFA1:00	1E	ØØ	ØØ	3E	ØØ	Ø4	3F	8Ø
ØFA9:00	ØE	6D	2Ø	Ø3	FF	3Ø	ØØ	73
ØFB1:FF	6Ø	ØØ	FF	CØ	ØØ	7F	ØØ	EC
ØFB9:00	FF	CØ	ØØ	FF	6Ø	ø3	FE	76
ØFC1:00	Ø6	7C	øø	ØØ	7C	ØØ	ØØ	E2
ØFC9:3C	ØØ	ØØ	3C	ØØ	øø	3C	ØØ	42
ØFD1:00	1C	ØØ	ØØ	1E	ØØ	ØØ	ØF	F6
ØFD9:EØ	ØØ	Ø3	8Ø	FF	ØØ	18	ØØ	Ø1
ØFE1:00	3C	ØØ	ØØ	3C	ØØ	Ø4	7E	77
ØFE9:2Ø	ØC	5A	3Ø	Ø6	FF	6Ø	Ø3	5D
ØFF1:FF	CØ	ØØ	FF	ØØ	ØØ	FF	ØØ	40
ØFF9:00	FF	ØØ	Ø3	FF	CØ	Ø6	FF	57
1001:60	ØØ	7E	ØØ	ØØ	7C	ØØ	ØØ	13
1009:7C	ØØ	ØØ	3C	ØØ	øø	3C	ØØ	A3
1011:00	3C	ØØ	ØØ	3C	ØØ	ØØ	1E	4Ø
1019:00	ØØ	Ø7	8Ø	ØØ	ØØ	18	ØØ	52
1021:00	3C	ØØ	ØØ	3C	ØØ	Ø4	7E	B8
1021:00	ØC	5A	30	Ø6	FF	60	Ø3	9E
1023:20	CØ	ØØ	FF	ØØ	ØØ	FF	ØØ	81
1031:FF	FF	ØØ	Ø3	FF	CØ	Ø6	FF	98
1039:00	ØØ	7E	ØØ	ØØ	7E	ØØ	ØØ	5B
1041:00 1049:7E	ØØ	ØØ	3C	-				
1049:75	3C	ØØ	ØØ	ØØ 3C	ØØ	3C	ØØ	E4
1059:00	ØØ				ØØ	ØØ	18	7A
1061:00		18	ØØ	F7	ØØ	18	ØØ	6C
1069:20	3C	ØØ	ØØ	3C	ØØ	Ø4	7E	F8
	ØC	5A	3Ø	Ø6	FF	6Ø	Ø3	DE
1071:FF	CØ	ØØ	FF	ØØ	ØØ	FF	ØØ	Cl
1079:00 1081:60	FF	ØØ	Ø3	FF	CØ	Ø6	FF	D8
	ØØ	7E	ØØ	ØØ	3E	ØØ	ØØ	9A
1089:3E	ØØ	ØØ	3C	ØØ	ØØ	3C	ØØ	Ø5
1091:00	3C	ØØ	ØØ	3C	ØØ	ØØ	78	1B
1099:00	Ø1	EØ	ØØ	ØØ	ØØ	3Ø	ØØ	76
10A1:00	78	ØØ	ØØ	7C	ØØ	ØØ	FC	СØ

10A9:20 04 B6 7Ø ØC FF CØ Ø6 ΑØ 10Bl:FF ØØ Ø3 FF ØØ ØØ FE ØØ 30 1ØB9:03 FF ØØ Ø6 FF ØØ ØØ 7F 3**B** 10C1:C0 ØØ 3E 6Ø ØØ 3E ØØ Ø9 ØØ ØØ 3C ØØ ØØ 3C 1ØC9:3C ØØ ØØ 44 ØØ 1ØD1:00 38 ØØ 78 ØØ Ø7 FØ C2 1ØD9:00 Ø1 CØ ØØ FF Ø1 CØ ØØ **D7** FØ Ø1 F8 4Ø 1ØE1:03 ØØ Ø1 EC 87 1ØE9:6Ø Ø1 BE CØ Ø5 FF 8Ø ØC 93 1ØF1:FF ØØ Ø7 FE ØØ ØØ FE ØØ FØ 1ØF9:Ø7 FE ØØ Ø6 FF ØØ ØØ **7**F 3D 1101:80 00 7C CØ ØØ 7C 6Ø ØØ Bl 1109:78 2Ø ØØ ØØ 38 ØØ 78 ØØ **E3** 1111:10 70 ØØ ØC FØ ØØ Ø7 CØ 6E ØØ 1119:00 Ø1 8Ø ØØ ØØ ØØ ØØ 8B ØØ 1121:00 ØØ ØØ ØØ ØØ ØØ ØØ 43 1129:00 ØE' ØØ 7Ø 1F 3C F8 **7**F 31 FE **7E 7E 7E** FC 1131:FF 99 3F 25 1139:EF 18 F7 8F 3C Fl **C7 E7** 72 1141:E3 Ø7 C3 ΕØ Ø3 C3 CØ Ø7 4D 78 1149:E7 ΕØ 1E FF ØE 3C 3Ø FF 1151:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ 73 1159:00 ØØ ØØ ØØ FF ØØ ØØ ØØ **7B** ØØ ØØ 1161:00 ØØ ØØ ØØ ØØ ØØ 83 1169:ØØ 1E ØØ 78 **7**F BD FE FF 8**B** 1171:FF FF DE **7E** 7B 8E DB 71 96 1179:ØF 18 FØ ØЗ 18 CØ Ø7 $\mathbf{F}\mathbf{F}$ 49 1181:EØ Ø7 81 ΕØ Ø7 C3 ΕØ Ø3 20 CØ Ø7 FF ΕØ 3E 3C 7C 1189:FF Bl 38 1191:1C ØØ ØØ ØØ ØØ ØØ ØØ **C8** 1199:00 ØØ ØØ ØØ FF ØØ ØØ ØØ BB 11A1:00 ØØ ØØ ØØ ØØ ØØ ЗØ ØØ 24 11A9:ØC FE ØØ **7**F FF 99 FF DF CF FB 1E 3C 78 ØE 7Ø **C6** 11B1:FF FF 18 EØ Ø7 18 ΕØ ØF 54 11B9:07 FF 11C1:FØ ØF 18 FØ Ø7 81 ΕØ Ø7 39 Ø7 1E 7E 78 F9 11C9:FF ΕØ FF ΕØ 11D1:3E ØØ 7C 2Ø ØØ Ø4 ØØ ØØ **B4** 11D9:00 ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØØ ØØ F8 11E1:00 ØØ ØØ ØØ ØØ F5 ØØ 7F 7F 81 FE 3F 92 11E9:1F FE F8 ØE 11F1:DB FC 1F 3C FF 7Ø 59 11F9:07 99 ΕØ ØF 18 FØ ØF FF **B5 7E** 7Ø 18 ΕØ ØЗ 55 1201:FØ ØE Ø7 1209:C3 CØ ØE FF EØ ØE 7E 7Ø AD 1211:3E ØØ 7C 22 ØØ 44 ØØ ØØ 17 ØØ 1219:00 ØØ ØØ ØØ FF ØØ ØØ 3D 1221:CØ ØØ Ø3 ΕØ ØØ Ø7 7C ØØ 29 1229:3E 7F 81 FE 3F 81 FC 1F 85 1231:DB F8 Ø6 FF 6Ø Ø3 3C CØ

1239:Ø7	99	ΕØ	ØE	18	7Ø	ØF	$\mathbf{F}\mathbf{F}$	E4
1241:FØ	ØC	$\mathbf{F}\mathbf{F}$	3Ø	Ø7	3C	ΕØ	ØЗ	Dl
1249:81	CØ	Ø3	$\mathbf{F}\mathbf{F}$	СØ	ØF	7E	FØ	EE
1251:18	ØØ	18	3E	ØØ	7C	32	ØØ	BE
1259:4C	ØØ	ØØ	øø	ØØ	СØ	øø	ø3	A9
1261:CØ	øø	ø3	7ø	øø	ØE	7E	øø	82
1269:7E	3F	81	FC	1F	81	F8	1F	AC
1271:C3	F8	Ø6	FF	6Ø	Ø3	7E		43
							CØ	
1279:07	99	ΕØ	ØE	18	7Ø	ØF	DB	Ø1
1281:FØ	ØC	FF	3Ø	Ø6	3C	6Ø	Ø3	Ø9
1289:81	CØ	Ø3	FF	CØ	ØE	7E	ΕØ	1B
1291:1C	ØØ	38	3F	ØØ	FC	31	ØØ	15
1299:8C	ЗØ	ØØ	ØC	\mathbf{FF}	1C	ØØ	38	79
12A1:3Ø	ØØ	ØC	38	ØØ	1C	3E	ØØ	\mathbf{CF}
12A9:7C	3F	81	FC	1F	C3	F8	ØF	E4
12B1:C3	FØ	Ø6	$\mathbf{F}\mathbf{F}$	6Ø	Ø3	7E	СØ	81
12B9:07	BD	ΕØ	ØE	18	7Ø	ØВ	DB	42
12C1:DØ	ØC	FF	ЗØ	Ø6	3C	6Ø	Ø3	39
12C9:81	CØ	øз	FF	CØ	Ø7	7E	EØ	3F
12D1:1C	ØØ	38	3E	ØØ	7C	33	øø	47
12D9:CC	18	ØØ	18	øø	ØF	96	øø	55
12E1:03	AC	12	DØ	A2	Ø2	CC	88	41
12E1:03	FØ	Ø7	88	CC	88	4A	FØ	E6
12E9:4A 12F1:01		BD		4A		21	DØ	35
	CA		89		8D 4A			
12F9:8D	20	DØ	BD	87		8D	12	75
13Ø1:DØ	AD	19	DØ	8D	19	DØ	EØ	7E
1309:01	DØ	Ø6	2Ø	C8	4A	4C	C2	71
1311:4A	2Ø	59	4B	2Ø	EA	FF	68	59
1319:A8	68	AA	68	4Ø	AD	7A	Ø3	3A
1321:8D	Ø1	DØ	AD	7B	ØЗ	8D	ØЗ	49
1329:DØ	AD	7C	ØЗ	8D	Ø5	DØ	AD	В2
1331:7D	Ø3	8D	Ø7	DØ	AD	7E	ØЗ	36
1339:8D	Ø9	DØ	AD	7F	ØЗ	8D	ØВ	8B
1341:DØ	AD	8Ø	ØЗ	8D	ØD	DØ	AD	6B
1349:81	.Ø3	8D	ØF	DØ	AD	41	ØЗ	56
1351:8D	F8	Ø7	AD	42	ØЗ	8D	F9	6B
1359:07	AD	43	ØЗ	8D	FA	Ø7	AD	1B
1361:44	ØЗ	8D	FB	Ø7	AD	45	ØЗ	58
1369:8D	FC	Ø7	AD	46	ØЗ	8D	FD	A8
1371:07	AD	47	Ø3	8D	FE	Ø7	AD	C3
1379:48	Ø3	8D	FF	Ø7	AD	49	Ø3	BA
1381:8D	27	DØ	AD	4A	Ø3	8D	28	CE
1389:DØ	AD	4B	Ø3	8D	29	DØ	AD	7D
1391:4C	Ø3	8D	2A	DØ	AD	4D	Ø3	CD
1399:8D	2B	DØ	AD	4E	Ø3	8D	2C	ØC
1399:0D	AD	4F	Ø3	8D	2D	DØ	AD	26
13A9:5Ø	Ø3	ar 8D	2E	DØ	6Ø	AD		
							72	23
13B1:03	8D	Ø1	DØ	AD	73	Ø3	8D	B8
13B9:03	DØ	AD	74	Ø3	8D	Ø5	DØ	BB
13C1:AD	75	Ø3	8D	Ø7	DØ	AD	76	A2

13C9:03 8D 09 D0 AD 77 03 8D E1 8D ØD 13D1:ØB DØ AD 78 Ø3 DØ 79 Ø3 8D ØF DØ AD 51 13D9:AD D6 13E1:03 8D F8 Ø7 AD 52 Ø3 8D 13E9:F9 Ø7 AD 53 Ø3 8D FA Ø7 13F1:AD 54 Ø3 8D FB Ø7 AD 55 E9 13F9:03 8D FC Ø7 AD 56 Ø3 8D 6F 1401:FD 07 AD 57 03 8D FE 07 1409:AD 58 Ø3 8D FF Ø7 AD 59 28 8D 27 DØ AD 5A Ø3 8D 7A 1411:Ø3 1419:28 DØ AD 5B Ø3 8D 29 DØ 66 1421:AD 5C Ø3 8D 2A DØ AD 5D BD 1429:03 8D 2B DØ AD 5E Ø3 8D 1431:2C DØ AD 5F Ø3 8D 2D DØ C8 1439:AD 60 03 8D 2E D0 6Ø AØ 9F 1441:00 A9 00 85 FB A9 D4 85 E1 91 FB CØ ØF FØ 1449:FC A9 ØØ 65 1451:04 C8 4C F4 4B A9 ØF 8D 1459:18 D4 A9 ØØ 8D 17 D4 A9 14 1461:60 8D 05 D4 A9 19 8D 13 EA 1469:D4 A9 ØF 8D ØØ **D4** 8D Ø7 1471:D4 8D ØE D4 A9 ØF 8D Ø1 1C 1479:D4 A9 4F 8D Ø8 D4 A9 4F 1481:8D ØF D4 A9 ØØ 8D Ø4 D4 7C 1489:A9 ØØ 8D ØB D4 A9 ØØ 8D C3 1491:12 D4 A9 ØØ 8D Ø6 D4 8D E8 6Ø 8D ØC 1499:ØD D4 8D 14 D4 A9 14A1:0C D4 60 A9 60 8D 05 D4 C3 14A9:AD 89 4A 4A 4A 4A 85 FB 14B1:A9 24 E5 FB 8D Ø1 D4 A9 F7 14B9:60 8D 05 D4 A9 20 8D Ø4 14C1:D4 A9 21 8D Ø4 D4 6Ø A9 99 14C9:60 8D 0C D4 AD 89 4A 4A C6 14D1:4A 4A 8D Ø8 D4 A9 8Ø 8D BF 14D9:0B D4 A9 81 8D 0B D4 60 AC 14E1:A9 2A 8D 3C Ø3 A9 1Ø 8D 4B 14E9:12 D4 A9 15 8D 12 **D4** 6Ø 95 14F1:A9 Ø4 8D 3C Ø3 A9 1Ø 8D D1 14F9:12 D4 A9 15 8D 12 D4 6Ø A5 1501:A9 09 8D 8A 4A A5 FB 85 Ø3 1509:FD A5 FC 85 FE 98 8D 3D 46 1511:03 A9 10 8D 12 D4 A9 15 4E 1519:8D 12 D4 A2 1F A9 ØØ 8D 8Ø 1521:ØF D4 2Ø 97 4D 8A 8D 3E ØF D4 B2 1529:03 ØA ØA ØA ØA 8D 1531:AØ 12 2Ø 5B 4D AD 3E Ø3 8A 1539:AA CA DØ E6 AD 3D Ø3 A8 1541:A5 FD 85 FB A5 FE 85 FC 5F 1549:A9 EØ 8D ØF D4 A9 85 8D Ø9 1551:12 D4 A9 ØØ 8D 8A 4A 6Ø 7A

1559:A9	Ø9	8D	8B	4A	Α5	FB	85	6В
1561:FD	.A5	FC	85	FE	98	8D	3D	9E
1569:03	Α9	1Ø	8D	12	D4	Α9	15	A6
1571:8D	12	D4	A2	18	Α9	Ø8	8D	ВØ
1579:ØF	D4	2Ø	75	4D	8A	8D	3E	Α9
1581 : Ø3	ØA	ØA	EΑ	EΑ	8D	Ø8	D4	12
1589:AØ	12	2Ø	5B	4D	ΑD	3E	ØЗ	E2
1591:AA	CA	DØ	E6	AD	3D	ØЗ	8 A	5D
1599:A5	FD	85	FB	Α5	FE	85	FC	в7
15A1:A9	ΕØ	8D	ØF	D4	Α9	15	8D	8Ø
15A9:12	D4	Α9	ØЗ	8D	8B	4A	6Ø	Ø7
15B1:CØ	ØØ	FØ	15	CØ	Øl	DØ	ØЗ	5A
15B9:4C	6F	4D	88	A2	C6	CA	DØ	ΑE
15C1:FD	88	DØ	EC	A2	C3	CA	DØ	8Ø
15C9:FD	6Ø	A9	41	85	FB	A9	ØЗ	C6
15D1:85	FC	ΑØ	ØØ	Bl	$\mathbf{F}\mathbf{B}$	C9	F1	15
15D9:FØ	Ø8	18	69	Ø1	91	FB	4C	AA
15E1:91	4D	A9	E4	91	FB	C8	cø	7A
15E9:Ø8	DØ	E9	6ø	A9	51	85	FB	29
15F1:A9	Ø3	85	FC	ΑØ	ØØ	Bl	FB	96
15F9:C9	FF	FØ	Ø8	18	69	øi	91	Al
16Ø1:FB	4C	B3	4D	A9	F2	91	FB	Cl
1609:C8	CØ	Ø8	DØ	E9	ΑØ	Ø8	EE	A8
1611:3C	Ø3	AD	3C	Ø3	8D	ØF	D4	D6
1619:88	DØ	F4	6Ø	AD	6C	Ø3	18	9F
1621:69	29	85	FB	AD	6D	Ø3	85	6B
1629:FC	AD	67	Ø3	C9	ØØ	DØ	61	AD
1631:AØ	ØØ	Bl	FB	C9	ØØ	FØ	43	17
1639:A5	FB	38		10		FB	AØ	
1639:A5 1641:ØØ			E9 18		85			ØC
	Bl	FB		69	19	CD	89	AF
1649:4A	ВØ	Ø3	4C	31	4E	20	AB	9A
1651:4C	AD	89	4A	38	E9	17	91	ØE
1659:FB	A5	FB	18	69	1Ø	85	FB	8Ø
1661:A9	ØØ	91	FB	A5	FB	18	69	ØB
1669:08	85	FB	Bl	FB	C9	ØØ	FØ	8D
1671:03	4C	3C	4E	A9	FF	91	FB	ØB
1679:4C	3C	4E	A5	FB	38	E9	1Ø	A3
1681:85	FB	A9	25	91	FB	A5	FB	BA
1689:18	69	1Ø	85	FB	Α9	Ø1	91	9Ø
1691:FB	6Ø	AD	6E	ØЗ	18	69	41	FC
1699:85	FB	AD	6F	Ø3	85	FC	AD	ØA
16A1:6A	ØЗ	C9	ØØ	DØ	61	ΑØ	ØØ	4A
16A9:B1	FB	C9	ØØ	FØ	43	Α5	FB	C2
16B1:38	E9	1Ø	85	FB	ΑØ	ØØ	Bl	E2
16B9:FB	38	E9	Ø8	CD	89	4A	9Ø	69
16C1:03	4C	Α7	4E	AD	89	4A	18	9C
16C9:69	Ø5	91	FB	2Ø	ØЗ	4D	Α5	2B
16D1:FB	18	69	1Ø	85	FB	Α9	ØØ	9F
16D9:91	FB	A5	FB	38	E9	Ø8	85	41
16E1:FB	в1	FB	C9	ØØ	FØ	ØЗ	4C	AA

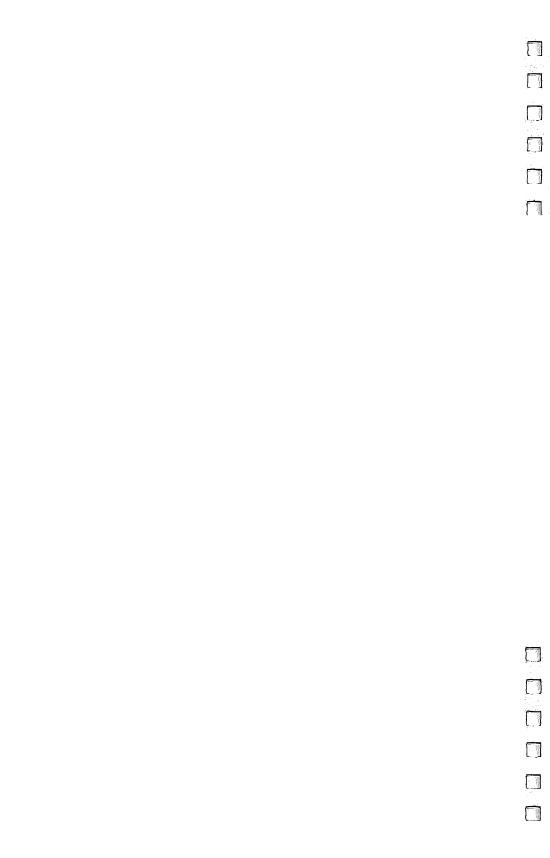
16E9:B2 4E A9 Ø1 91 FB 4C B2 85 FB 16F1:4E A5 FB 38 E9 1Ø 48 FB A5 FB 18 69 A1 16F9:A9 F7 91 1701:10 85 FB A9 FF 91 FB 60 17Ø9:AD 6C ØЗ 85 FB AD 6D Ø3 56 FC AØ ØØ AD 65 Ø3 C9 28 1711:85 Ø6 C9 Ø1 1719:FF FØ FØ 2Ø DØ BD 1721:3B A9 ØØ 91 FB A5 FB C9 **A8** 1729:59 FØ ØA C6 FB A5 FB 8D E9 1731:6C Ø3 4C Ø7 4F A9 6Ø 85 В7 1739:FB 8D 6C Ø3 4C Ø7 4F AØ 44 1741:00 A9 00 91 FB A5 FB C9 2B 1749:60 FØ ØA E6 FB **A5** FB 8D 8F 1751:6C Ø3 4C Ø7 4F Α9 59 85 C9 7Ø 1759:FB 8D 6C Ø3 AD Ø3 C9 A5 1761:11 DØ Ø5 A9 ØC 8D 7Ø Ø3 Ø2 7Ø Ø3 AD 7Ø Ø3 91 FB 15 1769:EE 43 1771:AD 6E Ø3 85 FB AD 6F ØЗ 1779:85 FC AD 64 Ø3 C9 FF FØ D5 1781:06 C9 Ø1 FØ 22 DØ 3D AØ C3 1789:00 A9 ØD 91 FB A5 FB C9 15 ØA C6 FB A5 FB 8D 4A 1791:49 FØ 4C 6F 4F A9 5Ø 85 87 1799:6E ØЗ 4C 6F 4F AØ 8E 17A1:FB 8D 6E Ø3 FB A5 FB C9 35 17A9:00 A9 0D 91 17B1:50 F0 0A E6 FB A5 FB 8D EF 17B9:6E Ø3 4C 6F 4F A9 49 85 99 8D 6E Ø3 AD 71 Ø3 C9 52 17C1:FB DØ Ø5 ØЗ 8D 71 ØЗ 2Ø 17C9:09 Α9 71 Ø3 AD 71 Ø3 91 FB C5 17D1:EE 17D9:AD A8 Ø3 FØ Ø4 CE A8 Ø3 28 17E1:60 A9 03 8D A8 03 A9 82 ØВ ØØ AØ 17E9:85 FB A9 ØЗ 85 FC AØ FB C9 17F1:B1 ØØ DØ 1A A5 FB 67 29 85 FB A9 Ø6 91 17F9:38 E9 6Ø 29 FB 9Ø 1801:FB A5 FB18 69 85 1809:C0 07 FØ 19 C8 4C 9В 4F Ø9 1811:A5 FB 38 E9 29 85 FB A9 В9 1819:00 91 FB A5 FB 18 69 29 C3 8A 85 1821:85 FB 4C В3 4F A9 93 85 FC AØ ØØ Bl 96 1829:FB A9 Ø3 1831:FB C9 ØØ DØ 1B A5 FB 38 1839:E9 41 FB A9 FB 8F 85 Ø1 91 1841:A5 FB 18 69 41 85 FB CØ **B**5 1849:07 FØ Ø4 C8 4C DA 6Ø 4F 41 85 1851:A5 FB 38 E9 FB A9 BA 1859:ØD 91 FB A5 FB 18 69 41 A2 4C F2 4F A9 82 85 1861:85 FB В7 85 1869:FB A9 Ø3 85 FC A9 72 В3 1871:FD A9 Ø3 85 FE AØ ØØ B1 EF

1879:FB C9 FF FØ Ø6 C9 Ø1 FØ 73	}
1881:26 DØ 1B B1 FD 18 69 17 B3	
1889:CD 89 4A BØ ØA B1 FD 18 82	2
1891:69 Ø1 91 FD 4C 49 5Ø 2Ø 13	
1899:C2 5Ø A9 Ø1 91 FB CØ Ø7 89	,
18A1:FØ Ø4 C8 4C 22 5Ø 6Ø B1 EI)
18A9:FD C9 1E 90 0A B1 FD 38 63	
18B1:E9 Ø1 91 FD 4C 49 5Ø A9 FA	
18B9:FF 91 FB 4C 49 5Ø A9 8A FI	3
18C1:85 FB A9 Ø3 85 FC A9 7A Ø	
18C9:85 FD A9 Ø3 85 FE AØ ØØ ØI	
18D1:B1 FB C9 FF FØ Ø6 C9 Ø1 4	
18D9:FØ 1F DØ 14 B1 FD C9 FB BA	
18E1:BØ ØA B1 FD 18 69 Ø1 91 F0	
18E9:FD 4C 9B 5Ø A9 Ø1 91 FB 19	
18F1:CØ Ø7 FØ Ø4 C8 4C 7B 5Ø 6	
18F9:60 B1 FD 38 E9 06 CD 89 96	
1901:4A 90 0A B1 FD 38 E9 01 71	
1901:4A 90 0A BI FD 38 E9 01 71	
1911:A9 FF 91 FB 4C 9B 5Ø A9 2	
1929:8D ØB D4 6Ø A9 24 8D Ø5 83	
1931:D4 A9 2F 8D Ø1 D4 A9 1Ø B	
1939:8D Ø4 D4 A9 11 8D Ø4 D4 Ø4	_
1941:60 AD 00 DC A0 00 A2 00 2	
1949:4A BØ Ø1 88 4A BØ Ø1 C8 5	
1951:4A BØ Ø1 CA 4A BØ Ø1 E8 A	
1959:4A 8E 66 Ø3 2A 29 Ø1 8D D	
1961:68 Ø3 AD Ø1 DC AØ ØØ A2 5	
1969:00 4A BØ Ø1 88 4A BØ Ø1 24	
1971:C8 4A BØ Ø1 CA 4A BØ Ø1 A	
1979:E8 4A 8E 69 Ø3 2A 29 Ø1 21	
1981:8D 6B Ø3 AD 68 Ø3 C9 ØØ 7:	3
1989:DØ 11 AD 67 Ø3 C9 ØØ DØ A	ļ
1991:12 AD AB Ø3 C9 FF FØ ØB 19)
1999:EE AB Ø3 A9 Ø1 8D 67 Ø3 39)
19A1:4C 5C 51 2Ø 9B 4C A9 ØØ 91	2
19A9:8D AB Ø3 AD 68 Ø3 8D 67 92	A.
19B1:03 AD 6B 03 C9 00 D0 11 6	7
19B9:AD 6A Ø3 C9 ØØ DØ 12 AD 61	7
19C1:AC Ø3 C9 FF FØ ØB EE AC 83	2
19C9:03 A9 01 8D 6A 03 4C 8A 6	
19D1:51 20 8B 4C A9 00 8D AC F	
19D9:03 AD 6B 03 8D 6A 03 AD 6	_
19E1:66 Ø3 C9 ØØ FØ 11 AD 65 C	
19E9:03 C9 00 F0 12 AD AD 03 C	
19F1:C9 Ø1 FØ ØB EE AD Ø3 A9 F	
19F9:00 8D 65 03 4C B8 51 20 7	
1AØ1:72 4C A9 ØØ 8D AD Ø3 AD 8	

1A09:66 03 8D 65 03 AD 69 03 DD 1A11:C9 ØØ FØ 11 AD 64 Ø3 C9 28 12 AD AE Ø3 C9 Ø1 BC 1A19:00 F0 1A21:FØ ØB EE AE Ø3 A9 ØØ 8D A5 1A29:64 Ø3 4C E6 51 2Ø 4E 4C 1A31:A9 ØØ 8D AE Ø3 AD 69 Ø3 **7B** 1A39:8D 64 Ø3 6Ø A9 82 85 FB 1A41:A9 Ø3 85 FC A9 ØØ 8D 9A 8E 1A49:03 A0 ØØ Bl FB C9 ØØ DØ 1 A 1A51:Ø3 EE 9A Ø3 CØ Ø7 FØ Ø4 1A59:C8 4C F6 51 A9 8A 85 FB85 FC A9 ØØ 8D 9B AF 1A61:A9 Ø3 1A69:03 A0 00 B1 FB C9 ØØ DØ **3A** 1A71:03 EE 9B Ø3 CØ Ø7 FØ Ø4 8E 1A79:C8 4C 16 52 AD 9B Ø3 CD BC 90 6D F0 6A AD 89 C2 1A81:9A Ø3 1A89:4A C9 3E DØ Ø3 4C 8B 53 DD 1A91:38 E9 Ø1 8D 89 4A A9 82 AØ 1A99:85 FB A9 Ø3 85 FC AØ ØØ 56 laal:B1 FB C9 ØØ DØ 15 A5 FB Ø9 1AA9:38 E9 10 85 FB B1 FB 38 A5 1AB1:E9 Ø1 91 FB A5 FB 18 69 C3 1AB9:1Ø 85 FB CØ Ø7 FØ Ø4 C8 AF 1AC1:4C 4B 52 A9 8A 85 FB A9 DF 1AC9:03 85 FC AØ ØØ B1 FB C9 13 38 E9 1Ø DB 15 A5 FB 1AD1:00 D0 1AD9:85 FB B1 FB 38 E9 Ø1 91 C2 1AE1:FB A5 FB 18 69 1Ø 85 FB 11 1AE9:CØ Ø7 FØ Ø4 C8 4C 78 52 lAF1:60 AD 89 4A C9 E8 DØ Ø3 2E 53 18 69 Ø1 8D 89 F5 1AF9:4C Ø7 1BØ1:4A A9 82 85 FB A9 Ø3 85 81 1BØ9:FC AØ ØØ B1 FB C9 ØØ DØ **D8** 1B11:15 A5 FB 38 E9 1Ø 85 FB D4 1B19:B1 FB 18 69 Ø1 91 FB A5 AC 1B21:FB 18 69 10 85 FB CØ Ø7 2E 1B29:FØ Ø4 C8 4C B6 52 A9 8A 1B31:85 FB A9 Ø3 85 FC AØ ØØ EF 1B39:B1 FB C9 ØØ DØ 15 A5 FB A2 1B41:38 E9 10 85 FB B1 FB 18 1F 18 69 1B49:69 Ø1 91 FB A5 FΒ 1D 1B51:10 85 FB CØ 07 FØ Ø4 C8 49 8D ØC F4 60 A9 60 1B59:4C E3 52 1B61:D4 8D Ø5 D4 A9 ØØ 8D 5C 1B69:03 A9 2Ø 8D 75 Ø3 A9 FF 73 1B71:8D 85 Ø3 A9 FA 8D 89 4A 36 1B79:A9 Ø8 8D 15 DØ Α9 Ø8 8D 54 1B81:1D DØ 8D 17 DØ A9 5C 8D 11 1B89:AF Ø3 A9 1Ø 8D Ø4 D4 A9 5E 1B91:15 8D Ø4 D4 AD 3D Ø3 8D 79

1B99: ØF D4 AD 75 Ø3 8D Ø1 D4 BE 1BA1:20 97 4D 20 10 50 20 10 8B 1BA9:50 A0 40 20 5B 4D AD AF 55 1BB1:03 C9 01 F0 06 CE AF Ø3 D8 1BB9:4C 35 53 A9 ØØ 8D 15 DØ 99 1BC1:A9 FF 8D 3D Ø3 AØ FF 2Ø ØD 1BC9:5B 4D AD 3D Ø3 DØ Ø6 CE CØ 1BD1:3D Ø3 4C 7Ø 53 A9 ØØ 8D C6 1BD9:17 DØ 8D 1D DØ 4C AB 4Ø A2 1BE1:A9 15 8D 13 D4 8D Ø5 D4 DØ 1BE9:A9 ØD 8D 4C Ø3 A9 EØ 8D BC 1BF1:7D Ø3 A9 Ø1 8D 8D Ø3 A9 3F 1BF9:1C 8D 89 4A A9 Ø8 8D 15 15 1CØ1:DØ A9 Ø8 8D 1D DØ 8D 17 44 1C09:D0 A9 5C 8D AF 03 A9 10 65 1C11:8D 12 D4 A9 15 8D 12 D4 A1 1C19:AD 3D Ø3 8D Ø1 D4 AD 7D E4 1C21:03 8D 0F D4 2Ø 75 4D 2Ø FE 1C29:69 50 20 69 50 A0 40 2Ø 6A 1C31:5B 4D AD AF Ø3 C9 Ø1 FØ 4D 1C39:06 CE AF 03 4C B9 53 A9 E7 1C41:00 8D 15 DØ A9 FF 8D 3D 32 1C49:03 AØ FF 2Ø 5B 4D AD 3D D5 1C51:03 DØ 06 CE 3D 03 4C F4 70 1C59:53 A9 ØØ 8D 17 DØ 8D 1D B2 1C61:DØ 4C AB 4Ø AC 3F Ø3 A9 AØ 1C69:ØA 8D 3F Ø3 CE 3F Ø3 88 24 1C71:DØ FA AD AØ Ø3 C9 3C FØ 39 1C79:06 EE A0 03 4C 3B 54 2Ø CC 1C81:EC 50 20 C7 4D 20 3D 4E 78 1C89:20 B3 4E A9 00 8D A0 03 9D 1C91:AD A1 Ø3 C9 ØF FØ Ø6 EE 3D 1C99:A1 Ø3 4C 53 54 2Ø 1Ø 5Ø B5 1CA1:20 69 50 A9 00 8D A1 03 65 1CA9:AD A2 Ø3 C9 1E FØ Ø6 EE ØE 1CB1:A2 Ø3 4C 6B 54 2Ø 75 4D 97 1CB9:20 97 4D A9 00 8D A2 03 AA 1CC1:AD A3 Ø3 C9 FF FØ Ø6 EE 1CC9:A3 Ø3 4C 8Ø 54 2Ø E7 51 6A 1CD1:A9 ØØ 8D A3 Ø3 AE 3F ØЗ 1F 1CD9:AØ 18 88 DØ FD CA DØ F8 3C 1CE1:4C 1D 54 00 00 00 00 00

Chapter 3 The Source Code



The Fast Assembler

Yves Han

Here's a truly amazing machine language assembler. "The Fast Assembler" supports multiple statement lines, labels, and macrolike INCLUDE files. It can assemble to memory or to disk. Written very compactly, it occupies only about 2600 bytes, leaving the rest of memory for your source code. It also adds to the BASIC editor several new features useful to both BASIC and machine language programmers.

Symbolic label-based assemblers are the most convenient way to write machine language (ML) programs. The instructions are entered as *source code* and later assembled into object code (the actual ML program—the numbers in memory). And rather than always having to specify memory addresses, you can name routines with meaningful labels. It's as if you could enter GOSUB JOYSTICK in BASIC.

Saving Memory by Using the BASIC Editor

You write the source code for your ML programs for "The Fast Assembler" (FA) with the BASIC editor. You save the source code to tape or disk as you would a BASIC program, and list it to a printer exactly as you would list BASIC.

The FA is an extension of the BASIC interpreter especially designed for writing programs in machine language. Writing it as a BASIC extension kept the program short (under 2600 bytes) because many subroutines of the BASIC interpreter could be used. Some modifications have been made to BASIC to make writing programs easier by copying BASIC ROM into the underlying RAM.

Even if you don't write programs in machine language, you can still use the assembler because of the new features

added to BASIC and the extra BASIC commands it adds. The assembler will execute a BASIC program just as normal BASIC would.

Typing Fast Assembler

You'll need a copy of "MLX" to type in The Fast Assembler. First enter MLX and save a copy or two. When you are ready to enter the data for FA, run MLX and answer the starting and ending address prompts as follows:

Starting Address: 0801 Ending Address: 1220

After entering all the data for The Fast Assembler, save a copy on tape or disk. To start up FA, first load it as if it were a BASIC program (don't use an extra ,1 in the LOAD command). Type

LOAD "filename",8 (for disk) LOAD"filename" (for tape)

Press RETURN; then type

RUN

Press RETURN again. The enabling SYS is built into the first line of the program. The screen will clear, and a message will appear at the top of the screen, indicating FA has been enabled. You can now start programming—in BASIC or machine language.

BASIC Modifications and Enhancements

The following changes have been made to the BASIC interpreter:

- **Structured listings.** Spaces between the line number and the first character on the line are not deleted. This makes it possible to indent lines and makes listings easier to read.
- List pause. You can freeze a listing by holding down the SHIFT key or pressing SHIFT-LOCK. Listing can be continued by releasing the SHIFT key.
- ASCII translations and hexadecimal/binary numbers. In arithmetic expressions, you can use hexadecimal and binary numbers. Hexadecimal numbers should be preceded by \$ and binary numbers by %. You can also use a character preceded by a single quote ('A is the same as ASC("A")). The single quote preceding a character can be used to find the

- value of a BASIC token, as well. For example, PRINT 'END will print the value 128, which is the BASIC code for END. If you put a space between the quotation mark and the character, the ASCII value of the space will be used instead of the character value.
- Variable and function names. The rules for variable and function names have been changed a bit. Instead of the first two, the first eight characters are recognized. FA recognizes NUMBER1 and NUMBER2 as separate variables, while ordinary BASIC would consider them the same variable (NU). Variables may contain, but not be equal to, BASIC/assembler commands or mnemonics: LAND is a legitimate variable name, even though it contains the keyword AND. But variable labels starting with TI or ST (reserved keywords) are not automatically set to zero the first time you use them. An exception to this recognition of eight-character names is that only the first two characters of array variables are significant.
- **Keywords.** Because variable and function names may contain keywords, FA has to be able to decide whether a keyword is a keyword or part of a variable or function name. The assembler recognizes a keyword if it's followed by a space or non-alphabetic character. For example, in PRINT "OK" the keyword PRINT will be recognized as a PRINT command, but in A\$="OK":PRINTA\$, the keyword PRINT is interpreted as part of the variable name PRINTA\$. You would have to insert a space (PRINT A\$) if you wanted to print the variable A\$. In keywords like PRINT# or GET#, you must remember to include a space between the keyword and the logical file number value. For example, you must use PRINT# 1; a statement like PRINT#1 will cause a syntax error.
- REM and DATA. Capital letters in REM and DATA lines are listed as capital letters and not as tokenized BASIC keywords. For example, 10 rem AB lists as it's entered and not as 10 rem atnpeek as normal BASIC would do.

New BASIC Commands

AUTO step value

This command turns on automatic line numbering and defines the step value between the line numbers. To enter AUTO mode, type **AUTO** followed by the step value, and press RE-TURN. Then enter a line with a line number. The next line number prints automatically. To leave auto mode, move the

cursor to an empty line and press RETURN. To turn automatic line numbering off altogether, enter AUTO only.

You can also use this command to delete part of a program. Turn automatic line numbering on with a step value of 1. Type the number of the first line you want to delete and press RETURN. Keep pressing RETURN until you've reached the end of the section you want to delete. Instead of pressing RETURN again and again, you can enter **POKE 650,128** and hold RETURN down until you've reached the last line to be erased.

OLD

If you accidentally type NEW, you can restore your program with this command. It can also be used if you've installed a reset button. If you've assembled a program and are testing it, sometimes your computer locks up. Use the reset button and then enter SYS 4408 to restart the assembler; type OLD to restore the source program. If your program has not destroyed the assembler or the source program, everything will be there.

Semicolon (;)

This has the same function as the REM statement. It need not be separated with a colon from the preceding command. For example,

10 X=0:REM SET X TO ZERO

is the same as

10 X=0;SET X TO ZERO

The semicolon in the commands PRINT and INPUT is not treated as a REM statement, but as a separator.

Using Labels as Variables and Addresses

Label names follow the same rules as variable names. They can be used in arithmetic expressions the way normal variables are used.

You can define a label in two ways. You can place the label name just before the command to which you want to refer. If more commands are on the same line, you must separate the label from the commands with a colon. Or you can label the current program counter: **LABELNAME**=*. The asterisk (*) is a special variable which gives the value of the program counter. The counter is the address where the next instruction or datum will be placed. You can only read the variable *. You cannot assign a value to it with the statement *=expr.

Here's an example of using labels to mark routines in a program (don't type this in; it's only a fragment of a program):

50 JSR DISPLAY1; JUMP TO LABELED SUBROUTINE (LINE 90) 60 LDA \$FF: BNE SKIPIT ; CONDITIONAL BRANCH AHEAD TO SKIPIT

70 TYA

80 SKIPIT: LDX #4: STA \$8000,X: RTS;TARGET OF BRANCH IN 60

90 DISPLAY1=*; THIS LABELS THE CURRENT PROGRAM COUNTER

100;

110 LDA #65: JSR \$FFD2: RTS

Remember that in the lines above, the semicolon marks the beginning of a comment which, like a REM, is ignored by FA. The technique in line 90 is valuable if you think you may be adding some code at the beginning of the routine. As listed, the subroutine called DISPLAY1 starts with LDA #65, but later you could go in and add some lines between 90 and 110.

Three Passes to Assemble

Three passes are required to assemble source code (what you write) into object code (an executable ML program that the computer can follow). But FA doesn't do it by itself. You have to insert a loop that repeats three times with BASIC commands:

10 FOR PASS=1 TO 3

. (Insert source code)

90 NEXT PASS:END

If you use an invalid addressing mode such as LSR (expr),y you'll see ILLEGAL ADDRESSING MODE ERROR. Mnemonics can only be used in program mode—that is, in a program you execute with RUN. If you enter a mnemonic in direct mode, you'll see ILLEGAL DIRECT ERROR.

Also note that for immediate addressing, the argument can be an actual number or an arithmetic expression which evaluates to a value in the range 0–255. Or you can substitute a string expression, in which case the assembler takes the ASCII value of the first character as the argument. If the string length is zero, the argument becomes zero.

Assembler Commands

Assembler commands which write data to the output device can only be used in program mode; otherwise you'll get *ILLE-GAL DIRECT ERROR*. All assembler commands must be included in every pass.

ORG address, mode, device, name

This command must be used at the start of each pass. It does several things. First, it sets the origin (ORG), the memory address for the beginning of the ML program. It assigns an initial value to the program counter. It also sets the assembler mode, which should be 0 on the first two passes and 1 on the third and last. ORG also sets the output device and filename (if necessary).

Not all arguments are necessary. Also permitted are

ORG address
ORG address,mode

Default values for the arguments are

address = 49152 (\$C000) mode = 0 device = 0 and no name

If you use a mnemonic or assembler command before you've used the command ORG, you'll see *UNDEF'D LOCATION COUNTER ERROR*.

The address assigns a value to the program counter. Usually, you use more than one pass to assemble the source program. Only during the last pass should the object code be written to memory or to the output device. *Mode* tells the assembler when the last pass is reached. Zero means it's not the last pass, so no object code should be produced, and there's no range checking for arguments and no checking for too large branches.

On the final pass, you should set the mode to 1, which signals the last pass, when object code is written to the output device.

Finally, you set the device number of the output device and a string expression which contains the filename if the object code is not written to memory. Zero means the output device is memory. Be careful not to write to memory locations where the assembler is placed (\$0801-\$121B) or where the BASIC interpreter is placed (\$A000-\$BFFF).

A device number in the range 8–11 means the output device is a disk drive. If *mode* is equal to 1, the assembler will open a PRG file with the name specified in the argument name. The logical file number will be 8.

BYTE expression, expression,...

This command writes numbers or characters to memory or the selected output device. It can have one or more arithmetic or string expressions separated by commas. Arithmetic expressions must give a positive value less than 256. The value will be placed in one byte. Each character of a string expression will be placed in one byte.

WORD expression, expression, ...

This has the same function as BYTE except that values of arithmetic expressions must be positive and less than 65536. The value will be placed in two bytes in low/high format.

INCLUDE name, device

This command assembles a file from disk and inserts the resulting object code into memory or the output device. The file must be a normal PRG file and may not contain BASIC commands which cause a branch to another line or stop the program. Also not permitted are the BASIC commands DEF, RETURN, CLR, NEW, and the assembler commands SEND and INCLUDE.

The file is opened with a logical file number of 9. The file is closed when the end of the file is reached. The name is the filename you're including, and the device number can be 8–11 (use 8 if you have a single drive). If you have only one disk drive and you assemble to disk, the file(s) for the command INCLUDE must be on the same disk to which you assemble.

All variables and labels are *global*, which means you can pass parameters to INCLUDE files so they can work like macro-instructions. Let's say you're writing a program that needs to access several different disk files, and there are several points in the program that use the Kernal routines SETLFS, SETNAM, and OPEN. You could write the source code that performs these Kernal calls and save it to disk under the program name "OPEN" to be used later. Then, in the main program, use INCLUDE "OPEN", 8. When the source code is compiled, the series of commands from the OPEN file are automatically inserted in the proper place in the object code.

SEND stringexpr

The command SEND may be used only if the object program is written to disk. It's used to link object code to a BASIC program. Stringexpr must contain a BASIC line with line number. If you forget the line number, you'll get MISSING LINE NUMBER ERROR. If you want to send more than one line, you must use SEND for each line, and you have to send the lines in the right order. You must send the lines before the actual object code is written to disk. The address in the ORG command must be the start of BASIC RAM (2049).

UNSEND

If you load a program which consists of both BASIC and ML, the interpreter has to know where the BASIC part ends. UNSEND places a mark which the computer recognizes as the end of the BASIC part.

Example Programs

```
100 FOR PASS=1 TO 3:PRINT "PASS"PASS,
110 ORG $C000
120 IF PASS=3 THEN ORG $C000,1
130 START: LDX #0
140 LOOP: LDA TEXT,X:PRINT TEXT
150 BEQ EXIT
160 JSR $FFD2
170 INX
180 BNE LOOP
190 EXIT: RTS
200 PRINT *
210 TEXT: BYTE "EXAMPLE 1",0
220 NEXT PASS:END
```

Lines 110 and 120 show how to use the command ORG. In every pass, line 110 sets mode 0. But in pass 3, line 120 sets mode 1. The object code will start at 49152 (hexadecimal \$C000). Line 200 prints the current value of the location counter (*).

You can assemble the program with the command RUN. The program will give the following output:

```
PASS 1 0 49165
PASS 2 49165 49166
PASS 3 49166 49166
```

The first column is the pass number. The second column is the value of the label TEXT in the instruction LDA TEXT,X in line 140. The third column is the value the label should

have when the source code is assembled. You can see that only in pass 3 are these values equal to each other. This is because the assembler defaults to zero-page addressing. In pass 1, TEXT has a value less than 256, so zero-page addressing is assumed. This means a two-byte instruction instead of three. The value assigned to TEXT will be too low, as you can see in pass 1. In pass 2, this value, which is too low, will be used in assembling line 140. The assembler decides not to use zero-page addressing, so TEXT is assigned the correct value. In pass 3, the correct value replaces the previously incorrect values during assembly.

```
5 ; EXAMPLE PROGRAM 2
6;
10 PRINT CHR$ (147)
11 DEF FN H(X) = INT(X/256)
12 DEF FN L(X)=X-256*FN H(X)
20 PRINT: PRINT" LOADER MAKER"
3Ø PRINT: PRINT" ENTER THE NAME OF THE PROGRAM T
   HAT"
40 PRINT" HAS TO BE LOADED BY THE LOADER."
50 INPUT" >"; NAME$
60 PRINT: PRINT" ENTER THE NAME OF THE LOADER."
7Ø INPUT" >":N$
8Ø PRINT: PRINT" ENTER THE ADDRESS TO EXECUTE TH
90 PRINT" PROGRAM."
100 INPUT" >"; ADDRESS: ADDRESS=ADDRESS-1
110 FOR PASS=1 TO 3
115 :
120 ORG 2049
130 IF PASS=3 THEN ORG 2049,1,8,N$
135 :
140 SEND "10 SYS"+STR$ (LOADER)
15Ø UNSEND
160 LOADER: LDA #8:TAX:LDY #1
17Ø
            JSR $FFBA
            LDX #FN L(NAME)
18Ø
19Ø
            LDY #FN H(NAME)
            LDA #LEN(NAME$)
200
            JSR $FFBD
21Ø
                                    :PHA
22Ø
            LDA #FN H(ADDRESS)
23Ø
            LDA #FN L(ADDRESS)
                                    :PHA
24Ø
            LDA #Ø:JMP $FFD5
250 NAME: BYTE NAME$
260 NEXT PASS:CLOSE 8:END
```

The above example program shows how to use the commands SEND and UNSEND to write a program which includes a SYS within a BASIC line.

The main routine at lines 160–250 illustrates how to load another program from an ML program. Note that the lines up to 100 are BASIC—they prepare the variables and defined functions for use in the source code. If you assemble the program with the command RUN, you'll get a program that can load another ML program from disk and execute it. The object code will be written to disk.

In line 140, the command SEND writes a BASIC line to the output device by which you can load and run the program as if it were a normal BASIC program. Line 150 marks the end of the BASIC part of the object code.

The INPUTs in lines 50, 70, and 100 permit you to enter the parameters for the object program when the source program is assembled. In this way you can make different object programs with one source program.

Another advantage of writing the assembler as a BASIC extension is that you can assemble a program to the top of memory. Use the following construction to do this:

100 POKE 56,PEEK(56)-4:CLR 110 TOPOFMEM=PEEK(55)+256*(PEEK(56)+4) 120 ADDRESS=0:MODE=0 130 FOR PASS=1 TO 3 140 ORG ADDRESS 150 IF PASS=3 THEN ORG ADDRESS, MODE

. Source code

900 NEXT PASS 910 IF MODE=1 THEN END 920 ADDRESS=TOPOFMEM-* 930 MODE=1:GOTO 130

In this program, the source code goes through six passes. During the first three passes the location counter remains at 0. Mode 0 is used so the object program will not be written to the output device. The length of the program is calculated and subtracted from TOPOFMEM. This address is used in the second three passes to assemble to the top of memory. MODE is set to 1 so the assembler will write the object code to the out-

put device during the sixth pass (actually pass 3 of the second time around). Line 100 is used to reserve 1K at the top of memory for the object program.

Large Programs

If your source program won't fit into memory, you can split your program and use the command INCLUDE—for example,

10 FOR PASS=1 TO 3 20 ORG ADDRESS 30 IF PASS=3 THEN ORG ADDRESS,1

. Part 1 of source code

90 INCLUDE "PART 2",8 100 INCLUDE "PART 3",8 110 NEXT PASS:END

The labels and variables used in the INCLUDE files will be global variables, which means you can use them in arithmetic expressions everywhere in the program.

Another possibility is chaining the programs, but then you can't use a FOR-NEXT loop for the passes. You must use another way to define the passes—for example,

FIRSTPROGRAM
10 PASS=PASS+1:IF PASS=4 THEN
END
20 ORG ADDRESS
30 IF PASS=3 THEN ORG ADDRESS,1

. Source code

90 LOAD"SECONDPROGRAM",8
SECONDPROGRAM

. Source code

90 LOAD"FIRSTPROGRAM",8

Note that these are just examples. You'd have to insert your own source code as indicated. To chain programs, you would load and execute the first program. It controls the number of passes and loads the next program. The next program loads the following program and so on until the last program, which must load the first again.

The Fast Assembler

For mistake-proof program entry, use "MLX: Machine Language Entry Program" to type in this program.

Ø8Ø1:ØC Ø8 ØA ØØ 9E 2Ø 34 34 6C Ø8Ø9:3Ø 38 ØØ ØØ ØØ Α9 36 85 **D7** 7A CA 3Ø ØF BD ØØ 8Ø Ø811:Ø1 A6 Ø819:Ø2 C9 2Ø FØ F6 E8 BD ØØ 86 Ø1 2Ø DØ E8 AØ Ø4 Ø821:Ø2 C9 А6 ØA C9 Ø829:84 ØF BD ØØ Ø2 1Ø 25 Ø6 E9 9F DØ 16 A9 F2 Ø831:FF FØ Ø839:2Ø C9 2Ø FØ ØC 85 Ø8 C9 2F Ø841:22 FØ 4A C9 3F DØ 4F A9 ØA 73 Ø849:99 C8 99 FB Ø1 E8 DØ DA Ø851:A4 71 24 ØB 1Ø Ø6 C8 A9 19 Ø859:9Ø 99 FB Ø1 A5 ØВ Ø9 8Ø 93 3Ø C2 3C Ø861:C8 99 FB Ø1 24 ØB FØ Ø5 49 8F DØ BA 92 Ø869:C9 83 Ø871:2C A9 3A 85 Ø8 BD ØØ Ø2 DA ØF Ø879:FØ 1A 24 7Ø Ø4 C5 Ø8 Ø881:FØ C7 C9 22 DØ Ø7 ØA 45 53 Ø889:ØF 85 ØF A9 22 **C8** 99 FB 62 Ø891:Ø1 E8 DØ El FØ 5E 84 71 10 7A AØ 9E 84 22 ΑØ ΑØ 18 Ø899:86 23 AØ ØØ 84 ØB 51 22 E5 Ø8A1:84 Ø8A9:DØ Ø7 E8 C8 BD ØØ Ø2 DØ 5Ø Ø8B1:F5 C9 8Ø DØ 26 E8 BD ØØ 9C Ø8B9:Ø2 2Ø 1D Ø9 BØ 92 A5 ØB 2D Ø8C1:3Ø 19 84 Ø8 AØ ØВ D9 2E 54 A4 Ø8 17 Ø8C9:Ø9 FØ F1 88 1Ø F8 Ø8D1:C9 34 9Ø Ø7 BD ØØ Ø2 C9 12 Ø8D9:28 FØ El 88 C8 Bl 22 1Ø 6Ø 7A C8 B1 22 F1 Ø8E1:FB E6 ØB **A6** Ø8E9:DØ C2 C8 FØ ØA A4 71 BD BE Ø8F1:ØØ Ø2 DØ 11 4C C9 **A5** Α9 2C Ø8F9:3A 85 22 Α9 Ø9 85 23 Α9 Ø9Ø1:8Ø 85 ØB DØ A7 C8 99 2F E8 Ø9Ø9:FB Ø1 2Ø 1D Ø9 ВØ ØA BD ØC Ø911:00 Ø2 FØ ΕØ 2Ø 1D Ø9 9Ø E7 Ø919:EC 4C 2B Ø8 C9 3Ø 9Ø ØB D5 Ø921:C9 3A 9Ø Ø8 C9 41 9Ø ØЗ ВØ Ø929:C9 5B 24 38 6Ø Ø4 18 23 65 Ø931:26 31 32 33 2E 2D 2C 2B C5 C5 Ø939:2A 42 59 54 57 4F 52 DD Ø941:C4 4F 52 C7 41 55 54 CF 28 Ø949:4F 4C C4 49 4E 43 4C 55 BØ Ø951:44 C5 53 45 4E C4 55 4E 34 Ø959:53 45 4E C4 42 43 C3 42 65 45 Ø961:43 D3 42 D1 42 4D C9 **A2** Ø969:42 4E C5 42 5Ø CC 42 56 9D Ø971:C3 42 56 D3 41 44 C3 41 El

Ø979:4E C4 43 4D DØ 45 4F D2 2E Ø981:4C 44 Cl 4F 52 Cl 53 42 7A Ø989:C3 53 54 C1 41 53 CC 44 2E Ø991:45 C3 49 4E C3 4C 53 D2 ØE Ø999:52 4F CC 52 4F D2 53 54 Ø9A1:D8 43 5Ø D8 43 5Ø D9 4C E3 Ø9A9:44 D8 4C 44 D9 53 54 D9 8Ø Ø9B1:4A 53 D2 4A 4D DØ 42 49 Ø9B9:D4 42 52 CB 43 4C C3 43 **E3** Ø9C1:4C C4 43 4C C9 43 4C D6 23 Ø9C9:44 45 D8 44 45 D9 49 4E 21 Ø9D1:D8 49 4E D9 4E 4F DØ 50 AB Ø9D9:48 C1 5Ø 48 DØ 5Ø 4C Cl 31 Ø9E1:5Ø 4C DØ 52 54 C9 52 54 31 Ø9E9:D3 53 45 C3 53 45 53 C4 2C Ø9F1:45 C9 54 41 D8 54 41 D9 2C Ø9F9:54 53 D8 54 58 Cl 54 58 36 ØAØ1:D3 54 59 C1 ØØ 48 AD 8D 65 ØAØ9:02 C9 Ø1 FØ F9 68 1Ø 16 67 ØAll:C9 FF FØ 12 24 ØF 3Ø ØE 15 ØA19:5Ø ØF C5 Ø8 DØ Ø8 48 A5 2F 49 4Ø 85 ØF 68 4C F3 16 ØA21:ØF ØA29:A6 C9 9Ø FØ 18 48 C9 83 1D ØA31:FØ Ø5 49 8F DØ ØB 2C A9 D5 ØA39:3A 85 Ø8 A5 ØF 49 4Ø 85 CA ØA41:ØF 68 4C 24 A7 C8 B1 5F E5 ØA49:30 Ø5 88 A9 90 DØ F3 84 ØA51:49 AA AØ FF CA 1Ø Ø8 C8 38 ØA59:B9 3A Ø9 10 FA 30 F5 C8 48 ØA61:B9 3A Ø9 1Ø Ø3 4C EF A6 D2 ØA69:2Ø 47 AB DØ F2 2Ø 73 ØØ EØ ØA71:A2 ØØ 86 ØD C9 AC FØ 16 71 ØA79:86 62 86 63 C9 24 FØ 3F 7Ø ØA81:C9 25 FØ 28 C9 27 FØ 17 48 ØA89:2Ø 79 ØØ 4C 8D AE 2Ø 73 AB ØA91:00 A5 FB A4 FC 84 62 85 1D ØA99:63 A2 9Ø 38 4C 49 BC 2Ø BE ØAA1:AC ØB 48 2Ø 73 ØØ 68 DØ 17 4C Ø8 AF 2Ø 73 ØØ BØ C3 ØAA9:EE ØAB1:E8 C9 32 BØ E4 4A 26 63 FD ØAB9:26 62 9Ø FØ 4C 48 **B2** 2Ø A3 ØAC1:73 ØØ 9Ø ØA C9 47 BØ D1 EØ ØAC9:C9 41 90 CD E9 Ø7 29 ØF CE ØAD1:A2 Ø4 Ø6 63 26 62 BØ E4 30 ØAD9:CA DØ F7 Ø5 63 85 63 9Ø 5F ØAE1:DE 8D A8 Ø2 85 45 2Ø B2 32 ØAE9:0B 20 13 Bl BØ Ø3 4C Ø8 3B ØAF1:AF A2 ØØ 86 ØD 86 ØE 2Ø AD ØAF9:AC ØB 9Ø Ø5 20 13 B1 90 CA ØBØl:ØA EØ Ø7 ВØ F2 E8 9D A8 5F ØBØ9:02 DØ EC E8 EØ Ø8 BØ Ø4 ØD

ØB11:A9	ØØ	FØ	F2	ΑD	Α9	Ø2	85	E6
ØB19:46	2Ø	B2	ØB	C9	24	DØ	Ø6	E7
ØB21:A9	$\mathbf{F}\mathbf{F}$	85	ØD	DØ	13	C9	25	19
ØB29:DØ	1B	Α5	1Ø	DØ	СØ	Α9	8Ø	81
ØB31:85	ØE	Ø5	45	85	45	8D	A8	87
ØB39:02	Α5	46	Ø9	8Ø	85	46	8D	47
ØB41:A9	Ø2	2Ø	AC	ØB	Ø5	1Ø	49	51
ØB49:28	DØ	ØЗ	4C	D1	Bl	84	1Ø	3B
ØB51:A5	2D	Α6	2E	86	6Ø	85	5F	5D
ØB59:E4	3Ø	9Ø	Ø4	C5	2F	ВØ	1A	A6
ØB61:AØ	ØØ	В9	A8	Ø2	51	5F	DØ	6E
ØB69:08	C8	CØ	Ø8	9Ø	F4	4C	85	C4
ØB71:B1	Α5	5F	69	ØD	9Ø	\mathbf{DF}	E8	9F
ØB79:DØ	DA	68	48	C9	2A	DØ	Ø3	DB
ØB81:4C	23	Bl	AD	AA	Ø2	DØ	ØЗ	99
ØB89:4C	28	Bl	A5	2F	A4	ЗØ	2Ø	EC
ØB91:47	Bl	ΑØ	Ø7	В9	A8	Ø2	91	42
ØB99:5F	88	1Ø	F8	ΑØ	Ø7	4C	74	41
ØBAl:Bl	1Ø	Ø5	ΑØ	Ø8	4C	C7	В5	F5
ØBA9:4C	F6	В5	E6	7A	DØ	Ø2	E6	CA
ØBB1:7B	ΑØ	ØØ	Bl	7A	C9	3A	ВØ	E8
ØBB9:03	4C	84	ØØ	6Ø	Α6	9D	3Ø	FD
ØBC1:29	ΕØ	21	FØ	ØВ	ΕØ	2Ø	FØ	E4
ØBC9:1A	Α9	ØE	ΑØ	ØE	4C	27	11	24
ØBD1:A6	FD	FØ	ØD	A2	Ø8	2Ø	18	37
ØBD9:E1	2Ø	ØC	El	2Ø	CC	FF	FØ	AD
ØBE1:02	81	FB	E6	FB	DØ	Ø2	E6	55
ØBE9:FC	6Ø	4C	AΒ	В3	Α5	66	3Ø	ØC
ØBF1:12	A5	61	C9	91	ВØ	ØC	2Ø	CA
ØBF9:9B	BC	A4	64	Α5	65	85	14	C9
ØCØ1:84	15	6Ø	Α5	9D	4A	9Ø	ØЗ	41
ØCØ9:4C	48	В2	Α9	ØØ	A8	FØ	EE	BD
ØC11:2Ø	73	ØØ	FØ	Ø4	C9	3B	DØ	в3
ØC19:07	Α9	ØØ	85	15	85	FE	6Ø	94
ØC21:C9	23	DØ	Ø4	A2	Ø1	DØ	Ø8	Ø4
ØC29:A2	ØØ	C9	28	DØ	Ø5	A2	8Ø	AE
ØC31:2Ø	73	ØØ	86	FE	2Ø	9E	AD	Ø2
ØC39:24	ØD	3Ø	ØA	2Ø	EE	ØВ	A 5	C5
ØC41:FE	3Ø	1C	FØ	51	6Ø	A5	FE	CD
ØC49:C9	Ø1	FØ	Ø3	4C	Ø8	AF	2Ø	D6
ØC51:A6	В6	ΑØ	ØØ	84	15	C9	ØØ	8A
ØC59:FØ	Ø2	В1	22	85	14	6Ø	A2	A2
ØC61:00	86	ØВ	ΑØ	ØØ	BD	9F	ØC	C8
ØC69:51	7A	DØ	Ø4	E8	C8	DØ	F5	25
ØC71:ØA	DØ	ØD	A6	ØВ	BD	AC	ØĊ	83
ØC79:85	FE	2Ø	FB	A8	4C	73	ØØ	35
ØC81:E8	BD	9E	ØC	10	FA	E6	ØB	57
ØC89:BD	9F	ØC	DØ	D6	A5	FE	3Ø	72
ØC91:BB	Α9	Ø2	85	FE	6Ø	Α9	ØЗ	5A
ØC99:85	ØВ	A2	Ø8	DØ	C5	2C	58	5A
ØCA1:A9	29	2C	D9	A9	ØØ	2C	D8	7A
								-

```
ØCA9:2C
         D9
             ØØ
                Ø5
                   Ø6 ØF
                           Ø3
                               Ø4
                                   15
ØCB1:2Ø
         73
             ØØ
                2Ø
                    C4
                        ØC
                           2Ø
                               79
                                   C8
ØCB9:00
         C9
             3B
                DØ
                    Ø3
                        2Ø
                           3B A9
                                   71
ØCC1:4C
         AE A7
                FØ
                    Ø5
                        C9
                           3B DØ
                                   46
ØCC9: Ø5
         6Ø
             38
                4C
                    ED
                        A7
                           C9
                               AF
                                   99
             A2
                Ø9
                    8A DØ
                           72 DØ
ØCD1:DØ
         F8
                                  C2
ØCD9:03
         4C
            2F A8
                    E9
                        8Ø
                           ВØ
                              ØЗ
                                  AC
         Ø8 AF
                C9
                    40
ØCE1:4C
                        ВØ
                           F9
                               C9
                                   37
ØCE9:08
         ВØ
             ØD ØA
                    A8
                        В9
                           C7
                               ØD
                                   3D
         В9
             C6 ØD
                    48
                        4C
                           73
                               ØØ AØ
ØCF1:48
ØCF9:E9
         Ø8
             AA
                C9
                    Ø8
                        ВØ
                           39
                               BD
                                   2E
ØDØ1:D6
         ØD
             2Ø
                BE
                    ØB
                        2Ø
                           73
                               ØØ
                                   79
         D6
             C9
                3B
                    FØ
                        D2
                           2Ø
ØDØ9:FØ
                               8A
                                  DB
ØD11:AD
         A5
             9D
                4A
                    9Ø
                        18
                           2Ø
                               F7
                                   ΕØ
         18 A5
                14
                    E5
                        FB
                           AA
                               Ø8
                                   87
ØD19:B7
ØD21:A5
         15
             E5
                FC
                    28
                        1Ø
                           Ø2
                               49
                                   AE
ØD29:FF
         C9
             ØØ
                DØ
                    Ø4
                        8A
                           4C
                               BE
                                  64
ØD31:ØB
         Α9
             26
                ΑØ
                    ØE
                        4C
                           27
                               11
                                  ØB
ØD39:C9
         1F
             90
                ØD
                    C9
                        38
                           BØ
                               ΑØ
                                   14
ØD41:BD
         D6
             ØD
                2Ø
                    BE
                        ØВ
                           4C
                               73
                                   Cl
         48 BD D6
                    ØD
                        85
                           Ø2
                               2Ø
                                   3D
ØD49:00
                15
                        9D
ØD51:11
         ØC
             A5
                    2Ø
                           ØD
                               FØ
                                   7F
ØD59:ØC
         2Ø
            9D ØD
                    FØ
                        Ø7
                           A9
                               46
                                   43
            4C
                27
                        A5
                           Ø2
                               29
                                   97
ØD61:AØ
         ØE
                    11
ØD69:ØF
         A8 B9
                39
                    ØE
                        1Ø
                           Ø6
                               A5
                                   62
ØD71:FE
         Ø9
             1Ø 85
                    FE
                        68
                           38 E9
                                   9B
ØD79:08
         A6
             FE A8
                    18 B9
                           5D
                               ØE
                                   10
ØD81:7D
         74
             ØE
                2Ø
                    BE
                        ØB A5
                               FE
                                   A7
ØD89:29 ØF FØ
                38
                    29
                        Ø8
                           Ø8 A5
                                  BC
         2Ø
                    28
                        FØ
                           2D
                              A5
ØD91:14
             BE
                ØB
                                   4B
ØD99:15
         4C BE
                ØВ
                    FØ
                        Ø6
                           A5
                               FE
                                   C3
ØDA1:09
         Ø8 85
                FE
                    A5
                        FE
                           4A
                               4A
                                  EA
ØDA9:4A 4A A5
                Ø2
                    BØ
                        Ø4
                           29
                               ØF
                                   47
ØDB1:90
         Ø4
            4A 4A
                    4A
                        4A A8
                               A5
                                   75
         29
             Ø7
                AA
                    В9
                        39
                           ØE
                               49
                                   41
ØDB9:FE
                               D1
ØDC1:FF
         3D
             94
                ØE
                    6Ø
                        D4
                           ØF
                                   E4
ØDC9:ØF
         A7
             ØE
                42
                    ØF
                        11
                           1Ø
                               2A
                                  42
                    10
                        9Ø
                               FØ
ØDD1:10
         B8
             10
                BØ
                           BØ
                                   44
ØDD9:30
         DØ
             1Ø
                5Ø
                    7Ø
                        Ø5
                           Ø5
                               Ø5
                                   ED
         Ø5
            Ø5
                Ø5
                    Ø6
                        17
                           11
                               11
ØDE1:05
                 23
         17
             17
                    28
                        28
                           39
ØDE9:17
                               1A
                                   D8
             4C
                24
ØDF1:2B
         2C
                    ØØ
                        18 D8
                               58 E2
         CA 88 E8
                    C8 EA
                           48
ØDF9:B8
                               Ø8 4D
                    38
         28
             4Ø
                6Ø
                        F8
                            78
ØEØ1:68
                               AA
                                   AA
                9A
                    98
                        55
                           4E
ØEØ9:A8 BA
             8A
                               44
                                   1E
ØE11:45
         46
             27
                44
                    2Ø
                        4C
                           4F
                               43
                                   9E
         54
             49
                        20
ØE19:41
                4F
                    4E
                           43
                               4F
                                   D1
                        42
                           52
ØE21:55
         4E
             54
                 45
                    D<sub>2</sub>
                               41
                                   DF
ØE29:4E
         43
             48
                 20
                    4F
                        55
                           54
                               2Ø
                                   ΕØ
             2Ø
ØE31:4F
         46
                 52
                    41
                        4E
                           47
                               C5
                                   47
ØE39:1C ØC Ø4
                14
                   84
                       6E 6C ØD
                                  EB
```

ØE41:86	96	8E	8C	8Ø	49	4C	4C	EE
ØE49:45	47	41	4C	2Ø	41	44	44	99
ØE51:52	45	53	53	49	4E	47	2Ø	В9
ØE59:4D	4F	44	C5	6Ø	2Ø	СØ	4Ø	1A
ØE61:AØ	ØØ	ΕØ	8Ø	Ø1	Cl	El	41	ø6
ØE69:21	61	81	EØ	CØ	A2	ΑØ	8ø	FE
ØE71:14	40	2Ø	Ø9	Ø9	Ø5	15	15	D7
ØE79:Ø1	11	8Ø	Ø9	8Ø	ØD	1D	19	86
ØE81:8Ø	8Ø	8Ø	8Ø	ØØ	Ø4	14	14	62
ØE89:8Ø	8Ø	8Ø	8Ø	8Ø	ØC	1C	1C	A6
ØE91:8Ø	8Ø	2C	Øl	Ø2	Ø4	Ø8	1Ø	E3
ØE99:2Ø	4Ø	8Ø	2Ø	79	ØØ	FØ	Ø4	99
ØEA1:C9	3в	DØ	Ø2	68	68	6Ø	Α9	FA
ØEA9:00	85	FB	85	FD	85	В7	A9	1E
ØEB1:CØ	85	FC	A5	9D	Ø9	20	85	6Ø
ØEB9:9D	2Ø	9C	ØE	2Ø	8A	AD	2Ø	C7
					FC	2Ø	9C	15
ØEC1:F7	B7	84	FB	85				
ØEC9:ØE	2Ø	ØØ	E2	EØ	Ø2	90	Ø3	56
ØED1:4C	48	B2	8A	Ø5	9D	85	9D	6C
ØED9:20	9C	ØE	2Ø	ØØ	E2	86	FD	87
ØEE1:20	ØE	E2	2Ø	9E	AD	2Ø	АЗ	7 F
ØEE9:B6	2Ø	BD	$\mathbf{F}\mathbf{F}$	Α6	FD	FØ	В6	E6
ØEF1:A9	Ø8	ΑØ	Ø1	2Ø	BA	$\mathbf{F}\mathbf{F}$	Α5	9A
ØEF9:9D	4A	9Ø	AA	A5	в7	DØ	Ø6	E7
ØFØl:A5	FD	C9	Ø8	ВØ	15	2Ø	Cl	Ø7
ØFØ9:E1	A2	Ø8	2Ø	18	El	A5	FB	53
ØF11:2Ø	ØC	El	A5	FC	20	ØC	El	3B
ØF19:4C	CC	FF	20	1Ø	F7	4C	3B	C6
ØF21:A4	20	8B	BØ	85	49	84	4A	BA
ØF29:2Ø	79	ØØ	FØ	Ø7	C9	3B	FØ	8B
ØF31:03	4C	AC	Α9	A6	3A	E8	DØ	D4
ØF39:03	4C	Ø8	AF	2Ø	92	ØA	4C	93
ØF41:DØ	BB	FØ	1Ø	2Ø	6B	Α9	Α5	7D
ØF49:14	BD	Bl	Ø2	Α5	15	8D	В2	7A
ØF51:02	Α9	8Ø	2C	Α9	ØØ	8D	ВØ	C6
ØF59:02	6Ø	AD	ВØ	Ø2	29	BF	2C	Bl
ØF61:A9	ØØ	8D	ВØ	Ø2	Α6	14	8E	72
ØF69:FE	Ø1	A6	15	8E	FF	Ø1	2C	1Ø
ØF71:BØ	Ø2	7Ø	24	20	6Ø	A5	86	ØD
ØF79:7A		7B	2Ø	73	ØØ	AA	FØ	49
ØF81:D9			86			Ø3	4C	
	A2	FF		3A	9Ø			Ø4
ØF89:96	A4	AD	BØ	Ø2	Ø9	40	8D	
ØF91:BØ	Ø2	2Ø	79	ØØ	4C	9C	A4	33
ØF99:1Ø	C6	18	AD	FE	Ø1	6D	Bl	D 7
ØFA1:02	85	63	AD	$\mathbf{F}\mathbf{F}$	Ø1	6D	В2	FA
ØFA9:02	85	62	ВØ	В3	A2	90	38	ØЗ
ØFB1:2Ø	49	BC	2Ø	DF	BD	78	A2	55
ØFB9:ØØ	BD	ØØ	Øl	C9	3Ø	9Ø	Ø6	8D
ØFC1:9D	77	Ø2	E8	DØ	F3	A9	2Ø	25
ØFC9:9D	77	Ø2	E8	86	C6	58	DØ	34
ØFD1:A3	Α9	Ø8	2C	Α9	ØØ	85	Ø2	4A
					~~		~ -	

The Source Code

ØFD9:2Ø 9E AD 24 ØD 3Ø 1F 2Ø 2F ØFE1:EE ØB A5 Ø2 DØ ØD **A6** 15 2C ØFE9:FØ Ø9 A6 9D ΕØ 2Ø FØ ØЗ DD **B2** 2Ø ØFF1:4C 48 8D ØD 2Ø 9C 1E ØFF9:ØE 2Ø DA 2Ø ØE E2 DØ A6 64 AØ ØØ C4 41 1001:B6 85 64 FØ 1009:ED B1 22 2Ø BE ØB C8 DØ 57 1011:F4 A0 Ø1 A9 Ø8 91 2B 2Ø 1Ø19:33 A5 **A5** 22 A4 23 65 2D BC 1021:85 2D 9Ø Ø1 C8 84 2E 72 4C 1029:5C A6 2Ø 9E AD 2Ø A3 В6 FΑ 1Ø31:2Ø BD FF 20 00 E2 **A9** Ø9 BA 1039:A0 00 20 BA FF 2Ø Cl E1 3F 1Ø41:A2 Ø9 2Ø 1E E1 2Ø 12 El 7Ø 9Ø 29 Ø2 FØ Ø5 Α9 1Ø49:A5 Ø4 98 1051:4C 3B A4 20 12 El 2Ø CC 1059:FF A5 7A 48 A5 7B 48 A2 Ø5 1061:09 20 lE El 2Ø 12 E1 2Ø 1D 1069:12 E1 AA FØ 34 2Ø 12 E1 97 1071:20 12 El A2 FF **E8** 2Ø 12 82 1079:E1 9D ØØ Ø2 A8 DØ F6 2Ø **A8** 1081:CC FF A9 FF 85 7A A9 Ø1 A7 1089:85 7B 2Ø 73 ØØ 2Ø C4 ØC 9C 1091:20 79 ØØ AA FØ C9 C9 3A 47 C9 3B FØ Cl 4C Ø8 1099:FØ FØ **8**A 2Ø CC FF A9 Ø9 2Ø C3 10A1:AF ВØ 10A9:FF 68 85 7B 68 85 7A 6Ø FΑ 1ØB1:2Ø B4 1Ø A9 ØØ 4C BE ØB 65 1ØB9:2Ø 9E AD 2Ø A3 **B6** A8 A9 3C 10C1:00 C0 58 9Ø Ø3 4C 71 A5 F7 1ØC9:99 ØØ Ø2 88 3Ø Ø4 Bl 22 96 1ØD1:9Ø F6 **A5** 7A 48 **A5** 7B 48 6C 10D9:A9 FF 85 7A A9 Ø1 85 7B FE 1ØE1:2Ø 73 ØØ 9Ø Ø7 **A9** 14 AØ 9F 27 11 20 6B A9 2Ø 1ØE9:11 4C BD 10F1:7C A5 A5 14 8D FE Ø1 A5 BF 1ØF9:15 8D FF Ø1 8C FC Ø1 8C FE 11Ø1:FD Ø1 84 ØB AØ ØØ B9 FC 19 2Ø BE ØB C8 C4 ØB 9Ø 3C 1109:01 ВØ 96 4D 49 53 53 49 89 1111:F5 1119:4E 47 2Ø 4C 49 4E 45 2Ø 2B 1121:4E 55 4D 42 45 D2 85 22 3Ø 23 4C 47 **A4** 66 ØF ØE 3F 1129:84 1131:08 06 ØA B1 ØC 6E ØA A9 ØD 1139:37 85 Ø1 Α9 ØØ 85 58 85 5F 5F Α9 CØ 85 59 85 CC 1141:5A 85 1149:5B A9 AØ 85 6Ø 2Ø BB A3 8E 1151:A2 Ø9 BD 2E 11 9D Ø2 Ø3 A7 56 1Ø F7 A9 4C 8D C4 B5 1159:CA 8D 43 1161:8D 92 BØ Bl 8D A5 7F 1169:A9 A9 ØD 8D 4E B5 8D 55 FE

1171:B1 A9 Ø8 8D ØF B6 8D 89 A8 1179:B1 A9 EA 8D 10 B6 A9 6Ø 1181:8D 69 B1 A9 8C AØ ØB 8D 2Ø 1189:44 Bl 8C 45 Bl A9 E2 AØ 1191:ØA 8D 93 BØ 8C 94 BØ A9 1199:A2 AØ ØB 8D C5 B5 8C C6 54 11A1:B5 A9 D7 AØ ØC 8D 2C AØ 9D 11A9:8C 2D AØ A9 22 AØ ØF 8D 4B 11B1:A6 A9 8C A7 A9 A9 C4 AØ 11B9:0C 8D 49 A9 8C 4A A9 A9 93 11C1:FB AØ FØ 8D 2Ø DØ 8C 21 7F 11C9:DØ A9 1B AØ 12 8D 81 Ø2 11D1:8C 82 Ø2 2Ø BF E3 A9 E4 E2 11D9:AØ 11 20 1E AB 2Ø 3Ø E4 99 11E1:4C 9D E3 93 Ø8 ØE 9B 11 11E9:20 20 2A 20 Cl D3 D3 C5 11F1:CD C2 CC C5 D2 2Ø 56 33 98 11F9:20 2A 20 20 20 42 59 2Ø 99 1201:D9 56 45 53 20 C8 41 4E 7A 31 35 1209:20 20 39 38 ØD ØD BC 1211:20 20 20 20 20 20 20 20 35 1219:20 00 00 00 00 00 00 4D

The Source Code

The source code for the seven games in COMPUTE!'s More Machine Language Games for the Commodore 64 is listed in PAL format (the PAL assembler, from Pro-Line Software).

PAL uses several pseudo-ops, such as .ASC and .WORD, that aren't found in most other assemblers. Most pseudo-ops, however, are in standard MOS 6502 notation: *= updates the program counter (some assemblers use .ORG instead); .BYT or .BYTE assembles a list of numbers (some assemblers use .DB or .DW); .WOR or .WORD assembles a list of addresses into low-byte/high-byte format; .ASC is used to assemble an ASCII character string (many assemblers use .BYTE for this also); the pseudo-op < extracts the low byte of a 16-bit expression, while > extracts the high byte of a 16-bit expression (some assemblers reverse the use of < and >, and others use \$255 and /256 for the same effect); and = is used to assign an expression to a label (some assemblers use .EQU).

You'll find comments in almost every game's source code, though some are more heavily commented than others. You needn't type them in (if that's what you're using the source code for), but if you do, remember to precede each comment with a semicolon (;).

Since all source code was written with or translated to *PAL*, it's not surprising that the listings which follow are also in *PAL* format. The listings aren't source code in the strictest sense, but rather source code that has been assembled by *PAL*. Your assembler may display things differently.

Here's a typical line from the listing for "Space Arena" (the boldface headings indicate each column's content). Note that pseudo-ops like .ASC and .BYT don't have a final operand, but instead list the ASCII string or a series of numbers.

Address	Opcode	Operand	Label	Mnemonic	Operand
C028	B9	36 CF	NWCHR	LDA	CHARAC,Y

Notes on the Code

As mentioned above, the listings that follow show the assembled source code, not the raw source code you would actually enter for your assembler. Thus, you can't type the listings in the format shown. To enter the code so that you can assemble it yourself, you'll need to know the source code format your assembler expects. For example, for Commodore's Macro Assembler Development System you would type in just the labels, mnemonics, and operands (the three rightmost columns of the listings). PAL, on the other hand, requires a line number (just as BASIC does) before every line, but allows you to use the colon to combine more than one instruction per line.

You'll come across some odd-looking characters in several of the games' listings. These characters, limited to the .ASC pseudo-op, are found only within quotation marks ("). They're not meant to be typed in as shown, but instead represent the

key(s) you should press at that point.

Words within braces are the most common such characters: {DOWN} means to press the cursor-down key; {5 LEFT}

means to press the cursor-left key five times.

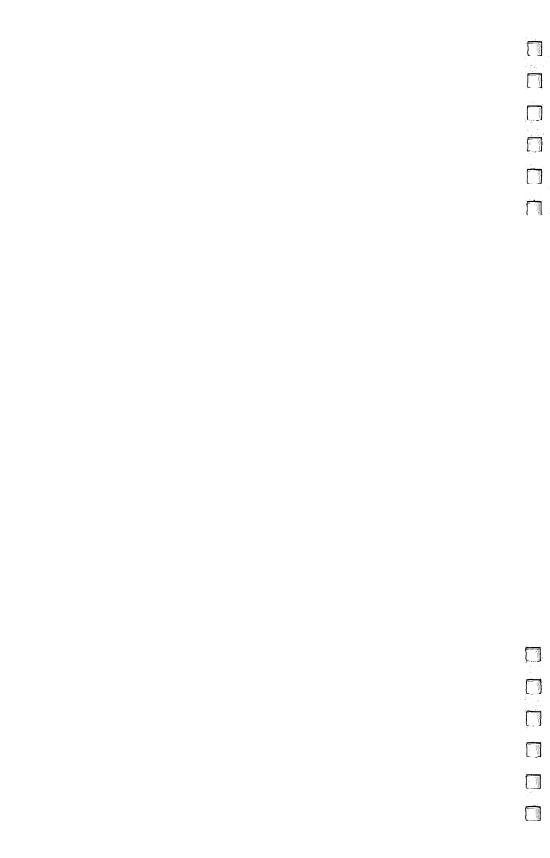
To indicate that a key should be *shifted* (pressed while you're holding down the SHIFT key), the character is underlined. For example, \underline{A} means hold down the SHIFT key and press A. You may see strange characters on your screen, but that's to be expected. If you find a pair of braces enclosing a number followed by an underlined key—for instance, $\{8\ \underline{A}\}$ —type the key as many times as indicated (in the example, enter eight SHIFTed A's).

If a key is enclosed in special brackets, [<>], hold down the Commodore key (at the lower left corner of the keyboard) and press the indicated character.

Refer to the following table.

The Source Code

When You			When You		
Read:	Press:	See:	Read:	Press:	See:
{CLR}	SHIFT CLR/HOME	-	€ ¹3	COMMODORE	1
{HOME}	CLR/HOME	·	[2 3]	COMMODORE	2
{UP}	SHIFT ↑ CRSR ↓	#	[3]	COMMODORE	3
{DOWN}	↑ CRSR ↓	[]	£ 4 3	COMMODORE	4
{LEFT}	SHIFT ← CRSR →		E 5 3	COMMODORE	5
{RIGHT}	← CRSR →	1	€ 6 3	COMMODORE	6
{RVS}	CTRL 9	R	€ 7 3	COMMODORE	7
{OFF}	CTRL 0		€ 8 3	COMMODORE	8
{BLK}	CTRL 1		{ F1 }	f1	
{WHT}	CTRL 2		{ F2 }	SHIFT f1	7
{RED}	CTRL 3	덛	{ F3 }	f3	
{CYN}	CTRL 4		{ F4 }	SHIFT f3	
{PUR}	CTRL 5		{ F 5 }	f5	
{GRN}	CTRL 6		{ F6 }	SHIFT f5	
{BLU}	CTRL 7		{ F7 }	f 7	
{YEL}	CTRL 8	T	{ F8 }	SHIFT f7	
			4	•	3
			<u>†</u>	SHIFT	Ħ



Space Arena

Source code by Bryan Files

C000		*=	\$C000		npact sprite data	1.5%	
C000	TEMP	=	2	CO3D	A0 00	LDY	#0
C000	TEMP1	===	\$FD	C03F	84 FB	STY LDA	TEMP3
C000	TEMP2	=	\$FE	C041	A9 DD	STA	# <sprite< td=""></sprite<>
C000	TEMP3	=	\$FB	C043 C045	85 FD A9 20	LDA	TEMP1 #\$20
C000	TEMP4	=	\$FC	C045	85 FC	STA	#\$20 TEMP4
, , , , , , , , , , , ,	ads alta d			C047	A9 CB	LDA	
;xcoor (\$10 \$	11) - ship 1			C049	85 FE	STA	#>SPRITE TEMP2
	(13) - ship 2			C04B	B1 FD L1	LDA	(TEMP1),Y
(\$14.3	(15)(\$1a \$1b) - a	asteroius		CO4D	FO 1D	BEQ	ZERO
	1d) - missile 1			C04F	91 FB	STA	
	1f) - missile 2		640	C053	E6 FB	INC	(TEMP3),Y
C000	XCOOR	=	\$10	C055	D0 02	BNE	TEMP3 L2
; ; ; ;	11) (00, 000)			C057	E6 FC	INC	TEMP4
;ycoor (\$20 \$2 C000	YCOOR	_	\$20	C059	E6 FD L2	INC	TEMP1
	TOOON		φΖυ	C058	DO 02	BNE	L6
, named (\$20.85	21) (\$25 \$26)			C05D	E6 FE	INC	TEMP2
;xyspd (\$30,\$3	XYSPD		\$30	C05F	A5 FE L6	LDA	TEMP2
C000	JOYCNT	_	\$40	C061	C9 CF	CMP	#>CHARAC
	SHPDIR	_	\$41	C063	D0 E8	BNE	L1
C000		_	\$43	C065	A5 FD	LDA	TEMP1
C000	MSL1CN	_	\$44	C067	C9 36	CMP	# <charac< td=""></charac<>
C000	MSL2CN	_	\$45	C069	D0 E2	BNE	L1
C000	CLLREG TIMCNT	_	\$46	C06B	4C 8C CO	JMP	TITLE
C000	CRWDCN	_	\$48	CO6E	E6 FD ZERO		TEMP1
C000	POSMSB	_	\$49	C070	DO 02	BNE	L3
C000	FRSCNT	_	\$47	C072	E6 FE	INC	TEMP2
C000	FRSCN2	_	\$4E	C074	B1 FD L3	LDA	(TEMP1),Y
	THOONE	_	Ψτ	C076	A8	TAY	(12 1)
; copy characte	re from rom			C077	A9 00	LDA	#0
C000 A9 37		LDA	#\$37	C079	88 L4	DEY	•
C002 85 F0		STA	TEMP4	C07A	91 FB	STA	(TEMP3),Y
C004 A9 D		LDA	#\$D7	C07C	DO FB	BNE	14
C006 85 FE		STA	TEMP2	C07E	B1 FD	LDA	(TEMP1),Y
C008 A0 00		LDY	#0	C080	18	CLC	(12.1 1),1
COOA 84 FE		STY	TEMP3	C081	65 FB	ADC	TEMP3
COOC 84 FI		STY	TEMP1	C083	85 FB	STA	TEMP3
COOE 78	•	SEI		C085	90 02	BCC	L5
COOF A5 01	1	LDA	\$01	C087	E6 FC	INC	TEMP4
CO11 29 FE		AND	#251	C089	4C 59 C0 L5	JMP	L2
C013 85 01		STA	\$01	:			
C015 B1 FI		LDA	(TEMP1),Y	C08C	AO 18 TITLE	LDY	#24
C017 91 FE		STA	(TEMP3),Y	CO8E	A9 00	LDA	#0
C019 88		DEY	· - //	C090	99 00 D4 UNHL	JM STA	\$D400,Y
C01A D0 F9)	BNE	COPY	C093	88	DEY	
CO1C C6 FI		DEC	TEMP2	C094	10 FA	BPL	UNHUM
C01E C6 F0	3	DEC	TEMP4	C096	A0 18	LDY	#24
C020 A5 F0	3	LDA	TEMP4	C098	B9 38 C7 HUM		SNDT,Y
C022 C9 2	F	CMP	#\$2F	C09B	99 00 D4	STA	\$D400,Y
C024 D0 EI	F	BNE	COPY	C09E	88	DEY	
;				C09F	₁10 F7	BPL	HUM
;define new c							
C026 A0 2		LDY	#47		y title screen	1.0%	щ0
	6 CF NWCHR	LDA	CHARAC,Y	COA1	A0 00	LDY	#0
C02B 99 0	U 34	STA	\$3400,Y	COA3	B9 DD C7 L7	LDA	SCREEN,Y
C02E 88	_	DEY	MAKOLID	C0A6 C0A9	99 00 04 B9 DD C8	STA	\$0400,Y SCREEN+\$100,Y
C02F 10 F		BPL	NWCHR	COAC		LDA Sta	
C031 A5 0		LDA	\$01	COAF	99 00 05 B9 DD C9	LDA	\$0500,Y SCREEN+\$200,Y
C033 09 0		ORA	#4	COB2	99 00 06	STA	\$0600,Y
C035 85 0	ı	STA	\$01	COB2	89 DD CA	LDA	SCREEN+\$300,Y
C037 58	^	CLI	#\$1C	COBS	99 00 07	STA	\$0700.Y
C038 A9 1		LDA STA	#\$10 \$D018	COBB	A9 0F	LDA	#\$0F
CO3A 8D 1	0 100	SIM	ψυστο	COBD	99 00 D8	STA	\$D800,Y
;				0000	50 50 50	, OIA	,

CCCO	99 00 D9 99 00 DA 99 00 DB 88 BD D7 20 FF C6 A0 26 B9 66 CF UPCOL 99 28 D8 88 BD 00 D7 A9 00 8D 21 D0 AD 36 C7 O9 30 8D 5E 07 AD 37 C7 O9 30 8D 66 CF GETIN C9 85 FO 18 C9 86 FO 18 C9 87 D0 F1 EE 36 C7 TIME AD 36 C7 O9 30 STARTI AD 37 C7 O9 30 SHIM BD 5E 07 AD 37 C7 C9 06 A9 01 BD 36 C7 SPEED AD 37 C7 C9 08 BD 30 SHTIM BD 36 C7 C9 06 A9 01 A9 01 BD 37 C7 C9 08 BD 30 SHTIM BD 5E 07 AD 37 C7 C9 30 AD 30 STARTI AD 30 AD 30 CSTARTI AD	STA	\$D900.Y	C160	18	CLC	
COC3	99 00 DA	STA	\$DA00,Y	C161	69 28	ADC	#40
C0C6	99 00 DB	STA	\$D800,Y	C163	85 FD	STA	TEMP1
COCA	88 D0 D7	DEA	17	C165	90 02	BCC	B1 TEMPO
2202	20 FF C6	JSR	DSCOR	C169	CA R1	DEX	I CIVIP2
COCF	A0 26	LDY	#38	C16A	DO E5	BNE	CLRLN
COD1	B9 66 CF UPCOL	LDA	TPCOLR,Y				
COD4	99 28 D8	STA	\$D828,Y	C16C	A0 02	LDY	#2
CODA	88 D0 57	DEY	LIDOOL	C171	B9 00 00 L9	LDA	\$0000,Y
CODO	A9 00	I DA	#n	C174	C8	INV	φυσυυ, Y
CODC	8D 20 D0	STA	\$D020	C175	D0 F7	BNE	L9
CODF	8D 21 D0	STA	\$D021	C177	A9 00	LDA	#0
COE2	AD 36 C7	LDA	CLK	C179	8D OE DC	STA	\$DC0E
COET	09 30 8D 5E 07	CHA	#\$30 1006	; cot in	sitial aprita conditions		
COFA	AD 37 C7	IDA	SPD	C17C	A2 AO SET	INY	#\$40
COED	09 30	ORA	#\$30	C17E	BD A8 C7 L10	LDA	INITT.X
COEF	8D 0E 07	STA	1806	C181	95 10	STA	XCOOR,X
;				C183	CA	DEX	
COE2	Speed and time timit	ICD	ČEEE4	C186	10 F8 40 94	BPL	L10 #130
COF5	C9 85	CMP	#133	C188	8D F8 07	STA	#132 2040
COF7	FO 36	BEQ	START	C18B	A9 8C	LDA	#140
COF9	C9 86	CMP	#134	C18D	8D F9 07	STA	2041
COFB	F0 1B	BEQ	SPEED	C190	A9 00	LDA	#0
COFE	U9 8/	CMP	#135 CETIN	C192	85 4/ 85 4E	SIA	FRSCNT
C101	EE 36 C7 TIME	INC	CLK	:	00 40	SIA	rnounz
C104	AD 36 C7	LDA	ČĽK	C196	A0 18	LDY	#24
C107	C9 06	CMP	#6	C198	88 SOUND	DEY	
C109	D0 05	BNE	SHTIM	C199	99 00 D4	STA	\$D400,Y
CIOB	A9 01 8D 36 C7	LUA STA	#1 CLK	C195	DU FA	RNF	SOUND
C110	09 30 SHTIM	ORA	#\$30	C1AO	8D 18 D4	STA	#15 \$D418
C112	8D 5E 07	STA	1886	C1A3	A9 80	LDA	#128
C115	4C F2 C0	JMP	GETIN	C1A5	8D 14 D4	STA	\$D414
C118	EE 37 C7 SPEED	INC	SPD	C1A8	A9 81	LDA	#129
C11F	CO DA	CMD	5PU #4	CIAA	OD 12 U4	SIA	\$D412
C120	DO 05	BNE	SHSPD	C1AD	A0 07	LDY	#7
C122	A9 01	LDA	#1	C1AF	A9 0C	LDA	#12
C124	8D 37 C7	STA	SPD	C1B1	99 27 DO COLOR	STA	\$D027,Y
C127	09 30 SHSPD	ORA	#\$30 1906	C1B4	88 10 EA	DEY	001.00
C125	4C F2 C0	JIA JMP	GETIN	C1B7	AQ OF	I DV	UULUH #14
;		0	CLING	C1B9	8D 27 D0	STA	\$D027
C12F	AO 03 START	LDY	#3	C1BC	8D 2D D0	STA	\$D02D
C131	A9 00	LDA	#0 000TV	C1BF	A9 05	LDA	#5
C136	99 32 U/ 23UN 88	DEV	SURI,Y	0101	8D 26 DO	SIA	\$D028 \$D025
C137	10 FA	BPL	ZSCR	C1C7	A9 3C	LDA	#%00111100
C139	20 FF C6	JSR	DSCOR	C1C9	8D 1C D0	STA	\$D01C
C13C	A9 00	LDA	#0	C1CC	A9 0B	LDA	#11
C13E	8D 08 DC	STA	\$DC08	CICE	8D 25 D0	STA	\$D025
C144	8D 08 DC	STA	\$DCOS \$DCOA	C1D3	A9 UF 8D 26 D0	LUA STA	#15 \$0026
;	35 3.1 50	0.,,	ΨΡΟΟΛ	;	00 20 00	UIA	ψυσευ
;erase	options			set tir	Description of the control of the co		
C147 C149	A9 A0 85 FD	LDA	#160	C1D6	AD 37 C7	LDA	SPD
C149 C14B	85 FD A9 04	SIA LDA	1CIVIP1 #4	C1D9	UA NA	ASL	A A
C14D	85 FE	STA	TEMP2	CIDB	0A	ASL ASL	Ä
C14F	A2 13	LDX	#19	C1DC	0A	ASL	A
C151	AO 26 CLRLN	LDY	#38	C1DD	85 02	STA	TEMP
C153 C155	B1 FD L8 30 04	LUA	(IEMP1),Y SKDCH	C1E1	A9 0U	LUA	#96
C157	A9 20	LDA	#32	C1E2	E5 02	SBC	TEMP
C159	91 FD	STA	(TEMP1),Y	C1E4	8D 07 DC	STA	\$DC07
C15B	88 SKPCH	DEY		C1E7	8D 06 DC	STA	\$DC06
C15C C15E	D0 F5 A5 FD	RNE	LÖ TEMD1	CIEC	A9 09	LDA	#9
OIDE	~ FD	LUA	ICIVIFI	CIEC	OU UF DU	SIA	\$DC0F

C1EF A9 3F	LDA	#\$3F	missile 1 hit ship 2 C274 A9 01 C276 20 EE C6 C279 A2 01 C27B B5 3C DFLC1 C27B 30 04 C27F 4A C280 4C 85 C2 C283 38 NEGS1 C284 6A INFL1 C286 75 32 C288 10 08 C28A C9 C0 C28C B0 0A C28E A9 C0 C28C B0 0A C28E A9 C0 C28C B0 0A C28E A9 C0 C290 D0 06 C292 C9 41 MVF1 C294 90 02 C296 A9 40 C298 95 32 NDFLC1 C29A CA C29B F0 DE C29C C29C A9 CC		
C1F1 8D 15 D0	STA	\$D015	C274 A9 01	LDA #1	
L			C276 20 EE C6	JSR SCORE	
C1F4 A9 01 MAIN	LDA	#1	C279 A2 01	LDX #1	40 V
C1F6 2C OF DC TIMER	BII	\$DCUF	C2/B B5 3C DFLC1	LDA XYSPD+	12,X
C1F9 DU FB	RNF	IIMEK	C27D 30 04	BMI NEGS1	
CIFB A9 09	LDA	#9	U2/F 4A	LSR A JMP INFL1	
CIFD 8D OF DC	SIA	ADCOL	0200 40 00 02 0000 00 NECC1	SEC INCLI	
obselv for enrite collinions			C203 30 NEG31	ROR A	
COOL AD 1E DO	IΠΔ	\$D01E	C285 18 INFI 1	CLC	
C200 AD IL DO	STA	CLUREG	C286 75 32	ADC XYSPD+	2 Y
C205 29 C3	AND	#%11000011	C288 10 08	BPL MVF1	- ,,,
C207 DO 03	BNF	COLL	C28A C9 C0	CMP #192	
C209 4C DC C2	JMP	DCOL	C28C BO 0A	BCS NDFLC1	
:			C28E A9 C0	LDA #192	
C20C 10 51 COLL	BPL	NMIS2	C290 D0 06	BNE NDFLC1	
C20E A5 45	LDA	CLLREG	C292 C9 41 MVF1	CMP #65	
C210 29 01	AND	#1	C294 90 02	BCC NDFLC1	
C212 F0 35	BEQ	NMTS	C296 A9 40	LDA #64	• • •
C214 A2 00	LDX	#0	C298 95 32 NDFLC1	STA XYSPD+	2,X
C216 AO DE	LDY	#14	C29A CA	DEX DELO	
C218 2U 5A C4	JOH	LINUTC	029B FU DE	BEQ DFLC1	
C218 D0 2C	BINE	MMID	CZ9D 4C A7 CZ	JMP DMIS1	
i Imigaile () hit ship 1			;		
,missie z nil snip i	LDA	#1	COAD AS OF MATES	LDV #19	
021D A9 01	ICD	SCUBE	C2A0 A2 00 NW131	JSR ASTCOL	
. 20 LL 00	0011	COOTIL	C2A5 DO 11	BNE NMIS1	
add half of velocity to ship			C2A7 AD 15 DO DMIS1	LDA \$D015	
C222 A2 01	LDX	#1	C2AA 29 BF	AND #\$BF	
C224 B5 3E DFLC	LDA	XYSPD+14.X	C2AC 8D 15 D0	STA \$D015	
C226 30 04	BMI	NEGS	C2AF A9 00	LDA #0	
C228 4A	LSR	Α	C2B1 85 1D	STA XCOOR+	13
C229 4C 2E C2	JMP	INFL	C2B3 A0 07	LDY #7	
C22C 38 NEGS	SEC		C2B5 20 28 C5	JSR HTSND	
C22D 6A	ROR	A	;		
C22E 18 INFL	CLC		C2B8 A5 45 NMIS1	LDA CLLREG	
C22F 75 30	ADC	XYSPD,X	C2BA 29 02	AND #2	
C231 10 08	BPL	MVF	C2BC FO OC	BEQ NSHP2	
C233 C9 C0	CMP	#192	C2BE A2 U2	LUX #2	
C235 BU UA	RCS	NDFLU #100	C2CU 2U D/ C4	JSR ASTCOL BNE NSHP2	
C237 A9 CU	LUA	# 192 NDELC	0203 00 05	DINE INSTITZ	
C239 DU 00	CWD	#65	tehin 2 hit seteroid		
C23D 03 41 WW	BCC	NDFI C	C2C5 AO O1	I DV #1	
C23F A9 40	IDA	#64	C2C7 4C 5F C5	JMP KILL	
C241 95 30 NDFLC	STA	XYSPD.X	C2CA A5 45 NSHP2	LDA CLLREG	
C243 CA	DEX		C2CC 29 01	AND #1	
C244 F0 DE	BEQ	DFLC	C2CE FO OC	BEQ DCOL	
C246 4C 50 C2	JMP	DMIS2	C2D0 A2 00	LDX #0	
;			C2D2 20 D7 C4	JSR ASTCOL	
check missile 2 to asteroid					
		11.4.4	C2D5 D0 05	BNE DOOL	
C249 A2 UE NW15	LDX	#14 ACTOOL	C2D5 DU 05	RNE DOOL	
C249 A2 UE NMTS C24B 20 D7 C4	LDX JSR	#14 ASTCOL	;;ship 1 hit asteroid	RWE DOOF	
C249 A2 UE NMTS C24B 20 D7 C4 C24E D0 0F	LDX JSR BNE	#14 ASTCOL NMIS2	;;ship 1 hit asteroid C2D7 A0 00	LDY #0	
C249 A2 UE NMTS C24B 20 D7 C4 C24E D0 0F C250 AD 15 D0 DMIS2 C253 29 7F	JSR JSR BNE LDA	#14 ASTCOL NMIS2 \$D015 #\$7F	C2D5 D0 05;;;ship 1 hit asteroid C2D7 A0 00 C2D9 4C 5E C5	LDY #0 JMP KILL	
C249 A2 UE NMTS C24B 20 D7 C4 C24E D0 0F C250 AD 15 D0 DMIS2 C253 29 7F C255 8D 15 D0	LDX JSR BNE LDA AND STA	#14 ASTCOL NMIS2 \$D015 #\$7F \$D015	;;ship 1 hit asteroid C2D7 A0 00 C2D9 4C 5E C5	LDY #0 JMP KILL	
C249 AZ UE NIMIS C248 20 D7 C4 C24E D0 0F C250 AD 15 D0 DMIS2 C253 29 7F C255 8D 15 D0 C258 AO 00	LDX JSR BNE LDA AND STA	#14 ASTCOL NMIS2 \$D015 #\$7F \$D015	:ship 1 hit asteroid C2D7 A0 00 C2D9 4C 5E C5 C2DC 20 0B C6 DC0L	LDY #0 JMP KILL JSR MOVE DEC JOYCNT	
C249 A2 UE NM15 C24B 20 D7 C4 C24E D0 0F C250 AD 15 D0 DMIS2 C253 29 7F C255 8D 15 D0 C258 A0 00 C25A 84 1F	LDX JSR BNE LDA AND STA LDY STY	#14 ASTCOL NMIS2 \$D015 #\$7F \$D015 #0 XCOOR+15	;;;ship 1 hit asteroid C2D7 A0 00 C2D9 4C 5E C5 C2DC 20 0B C6 DCOL C2DF C6 40 C2E1 D0 7A	LDY #0 JMP KILL JSR MOVE DEC JOYCNT BNE NJOY	
C249 A2 UE NMTS C24B 20 D7 C4 C24E D0 0F C250 AD 15 D0 DMIS2 C253 29 7F C255 8D 15 D0 C258 A0 00 C25A 84 1F C25C 20 28 C5	LDX JSR BNE LDA AND STA LDY STY JSR	#14 ASTCOL NMIS2 \$D015 #\$7F \$D015 #0 XCOOR+15 HTSND	;;;ship 1 hit asteroid C2D7 A0 00 C2D9 4C 5E C5 ; C2DC 20 0B C6 DCOL C2DF C6 40 C2E1 D0 7A C2E3 A9 07 JOY	LDY #0 JMP KILL JSR MOVE DEC JOYCNT BNE NJOY LDA #7	
C249 A2 UE NMTS C248 D0 D7 C4 C250 AD 15 D0 DMIS2 C253 29 7F C255 8D 15 D0 C258 A0 00 C25A 84 1F C25C 20 28 C5	LDX JSR BNE LDA AND STA LDY STY JSR	#14 ASTCOL NMIS2 \$D015 #\$7F \$D15 #0 XCOOR+15 HTSND	C2D5 D0 05 ;; ship 1 hit asteroid C2D7 A0 00 C2D9 4C 5E C5 ; C2DC 20 0B C6 DCOL C2E1 D0 7A C2E3 A9 07 JOY C2E5 85 40	LDY #0 JMP KILL JSR MOVE DEC JOYCNT BNE NJOY LDA #7 STA JOYCNT	
C249 A2 UE NMTS C248 D0 D7 C4 C250 AD 15 D0 DMIS2 C253 29 7F C255 8D 15 D0 C258 A0 00 C25A 84 1F C25C 20 28 C5 ; C25F A5 45 NMIS2	LDX JSR BNE LDA AND STA LDY STY JSR LDA	#14 ASTCOL NMIS2 \$0015 #\$7F \$0015 #0 XCOOR+15 HTSND	:ship 1 hit asteroid C2D7 A0 00 C2D9 4C 5E C5 :C2DC 20 0B C6 DC0L C2E1 D0 7A C2E3 A9 07 J0Y C2E5 85 40 C2E7 A2 01	LDY #0 JMP KILL JSR MOVE DEC JOYCNT BNE NJOY LDA #7 STA JOYCNT LDX #1	
C249 A2 UE NMTS C248 D0 D7 C4 C250 AD 15 D0 DMIS2 C253 29 7F C255 8D 15 D0 C258 A0 00 C25A 84 1F C25C 20 28 C5 : C25F A5 45 NMIS2 C261 29 40	LDX JSR BNE LDA AND STA LDY STY JSR LDA AND	#14 ASTCOL NMIS2 \$50015 #\$7F \$50015 #0 XCOOR+15 HTSND CLLREG #64	;;;ship 1 hit asteroid C2D7 A0 00 C2D9 4C 5E C5 C2DC 20 0B C6 DCOL C2DF C6 40 C2E1 D0 7A C2E3 A9 07 J0Y C2E5 85 40 C2E7 A2 01	LDY #0 JMP KILL JSR MOVE DEC JOYCNT BNE NJOY LDA #7 STA JOYCNT LDX #1	
C263 FO 53	BEC	NMIST	; ;ship control		
C263 FU 53 C265 A5 45	LDA	CLLREG	C2E9 BD 00 DC 0J0Y	LDA \$DC00,X	
C263 FU 53 C265 A5 45 C267 29 02	LDA AND	NMIST CLLREG #2	C2E9 BD 00 DC OJOY C2EC 29 04	LDA \$DC00,X AND #4	
C263 F0 53 C265 A5 45 C267 29 02 C269 F0 35	LDA AND BEQ	NMIST CLLREG #2 NMTS1	C2E9 BD 00 DC OJOY C2EC 29 04 C2FF D0 05	LDA \$DC00,X AND #4 BNE NLEFT	
C263 F0 53 C265 A5 45 C267 29 02 C269 F0 35 C26B A2 02	LDA AND BEQ LDX	NMIST CLLREG #2 NMTS1 #2	C2E9 BD 00 DC 0J0Y C2EC 29 04 C2EC D0 05 C2F0 D6 41	LDA \$DC00,X AND #4 BNE NLEFT DEC SHPDIR,	
C263 FO 53 C265 A5 45 C267 29 02 C269 FO 35 C26B A2 02 C26D A0 0C	LDA AND BEQ LDX LDY	NMIST CLLREG #2 NMTS1 #2 #12	C2E9 BD 00 DC OJOY C2EC 29 04 C2FF D0 05	LDA \$DC00,X AND #4 BNE NLEFT	x
C265 FU 53 C265 A5 45 C267 29 02 C269 FO 35 C26B A2 02 C26D A0 0C C26F 20 5A C4	LDA AND BEQ LDX LDY JSR	NMIS1 CLLREG #2 NMTS1 #2 #12 CKCOL	C2E9 BD 00 DC 0J0Y C2EC 29 04 C2EE D0 05 C2F0 D6 41 C2F2 4C FE C2 C2F5 BD 00 DC NLEFT C2F8 29 08	LDA \$DC00,X AND #4 BNE NLEFT DEC SHPDIR, JMP DIREC LDA \$DC00,X AND #8	x
C263 FO 53 C265 A5 45 C267 29 02 C269 FO 35 C26B A2 02 C26D A0 0C	LDA AND BEQ LDX LDY	NMIST CLLREG #2 NMTS1 #2 #12	C2E9 BD 00 DC 0J0Y C2EC 29 04 C2EE D0 05 C2F0 D6 41 C2F2 4C FE C2 C2F5 BD 00 DC NLEFT	LDA \$DC00,X AND #4 BNE NLEFT DEC SHPDIR, JMP DIREC LDA \$DC00,X	x

C2FC	F6 41	INC	SHPDIR,X SHPDIR,X #15 SHPDIR,X #128 2040,X \$DC00,X #1 NTHRU SHPDIR,X A XYSPD,X THXT,Y #65 NVTX #192 VTX XYSPD,X XYSPD+1,X THYT,Y #65 NVTY #192 VTY XYSPD+1,X A OJOY	C386 A5 20 C388 18 C389 69 40 C38B 85 2C C38D A5 21 C39F 69 01 C391 85 2D C393 A4 41 C395 B9 75 C7 C388 0A C399 0A C399 0A C398 0A C398 B9 71 C7 C3A1 0A C3A2 0A C3A3 0A C3A3 0A C3A4 0A C3A5 85 3D C3A7 AD 15 D0 C3A6 09 01 C3A6 09 01 C3A6 09 01 C3A6 09 01 C3A7 C6 43 G011 C3A1 1 A5 44 NSHOT1	I DA	YCOOR
C2FE	B5 41 DIREC	LDA	SHPDIR,X	C388 18	CLC	100011
C300	29 OF	and	#15	C389 69 40	ADC	#64
C302	95 41	STA	SHPDIR,X	C38B 85 2C	STA	YC00R+12
C304 C306	09 80	ORA	#128	C38D A5 21	LDA	YC00R+1
C309	9D F8 U/	SIA	2040,X	C38F 69 01	ADC	#1 V0000 + 40
C30C	20 01	ANID	\$D000,X	C391 85 2D	SIA	YC00R+13
C30E	DO 28	RNE	# I NTHRII	C305 PO 75 C7	LDY	SHPDIR
C310	B4 41	LDY	SHPDIR.X	C398 0A	ASI	THXT,Y A
C312	8A	TXA		C399 OA	ASI	Â
C313	0A	ASL	A	C39A OA	ASL	Ä
C314	AA DE GO	TAX		C39B 0A	ASL	A
C315 C317	BO 30	LUA	XYSPD,X	C39C 85 3C	STA	XYSPD+12
C318	79 75 C7	VDC	TUVTV	C39E B9 71 C7	LDA	THYT,Y
C31B	C9 41	CMP	#65	C3A1 UA	ASL	A A
C31D	90 04	BCC	NVTX	C3A2 UA	AOL	Ä
C31F	C9 C0	CMP	#192	C3A4 OA	ASI	Â
C321	90 02	BCC	VTX	C3A5 85 3D	STA	XYSPD+13
C323	95 30 NVTX	STA	XYSPD,X	C3A7 AD 15 D0	LDA	\$D015
C325 C327	B5 31 VIX	LDA	XYSPD+1,X	C3AA 09 40	ORA	#\$40
C328	10 70 71 C7	ADC	TUVTV	C3AC 8D 15 D0	STA	\$D015
C32B	C9 41	CMP	#65	USAF US 43 GUIT	DEC	MSL1CN
C32D	90 04	BCC	NVTY	, C3R1 A5 AA NSHOT1	LDA	MSL2CN
C32F	C9 C0	CMP	#192	C3B3 D0 4F	RNF	GOI2
C331	90 02	BCC	VTY	C3B5 AD 15 D0	LDA	\$D015
C333	95 31 NVTY	STA	XYSPD+1,X	C3B8 29 7F	AND	#\$7F
C335 C336	8A VIY	TXA		C3BA 8D 15 D0	STA	\$D015
C337	4A ^^	LSK	A	C3BD AD 01 DC	LDA	\$DC01
C338	CA NTHRU	DEX		C3CU 29 10 C3C2 D0 41	AND	#16
C339	FO AE	BEQ	0.10Y	C3B1 A5 44 NSHOT1 C3B3 D0 4E C3B5 AD 15 D0 C3B8 29 7F C3BA 8D 15 D0 C3BD AD 01 DC C3C0 29 10 C3C2 D0 41	BNE	NSHU12
;				new shot 2 fired		
thrust;	sound			C3C4 A0 07	LDY	#7
C33B	AD 00 DC	LDA	\$DC00	C3C6 20 43 C5	JSR	FRSND
C33E	29 01	AND	#1	C3C9 A9 80	LDA	#128
C340 C342	00 UZ AD 01 DC	SIA	PDC01	C3CB 85 44	STA	MSL2CN
C345	29 01	AND	Ψ1	C3CD A3 12	CLC	XC00R+2
C347	FO 04	BEQ	MKSND	C3D0 69.50	ADC	#80
C345 C347 C349	A4 02	LDY	TEMP	C3D2 85 1E	CTA	XCOOR+14
C34B C34D	DO OB	RME	NOSND			VOCCD : C
C34D		DIVL		C3D4 A5 13	LDA	XCOOR+3
C34E	18 MKSND	CLC	****	C3D4 A5 13 C3D6 69 01	LDA ADC	#1
C3E0	18 MKSND 69 10	CLC ADC	#16	C3D4 A5 13 C3D6 69 01 C3D8 85 1F	LDA ADC STA	#1 XCOOR+15
C350	18 MKSND 69 10 E5 02 8D 0F D4	CLC ADC SBC	#16 TEMP	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22	LDA ADC STA LDA	#1 XCOOR+15 YCOOR+2
C350 C352 C355	18 MKSND 69 10 E5 02 8D 0F D4 4C 5D C3	CLC ADC SBC STA	#16 TEMP \$D40F N.IOY	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18	LDA ADC STA LDA CLC	XCOOR+3 #1 XCOOR+15 YCOOR+2
C350 C352 C355 C358	18 MKSND 69 10 E5 02 8D 0F D4 4C 5D C3 A9 00 NOSND	CLC ADC SBC STA JMP LDA	#16 TEMP \$D40F NJOY #0	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2F	LDA ADC STA LDA CLC ADC STA	#1 XCOOR+15 YCOOR+2 #64 YCOOR+14
C350 C352 C355 C358 C35A	18 MKSND 69 10 E5 02 8D 0F D4 4C 5D C3 A9 00 NOSND 8D 0F D4	CLC ADC SBC STA JMP LDA STA	#16 TEMP \$D40F NJOY #0 \$D40F	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3E1 A5 23	LDA ADC STA LDA CLC ADC STA LDA	#1 XCOOR+15 YCOOR+2 #64 YCOOR+14 YCOOR+3
C350 C352 C355 C358 C35A	18 MKSND 69 10 E5 02 8D 0F D4 4C 5D C3 A9 00 NOSND 8D 0F D4	CLC ADC SBC STA JMP LDA STA	#16 TEMP \$D40F NJ0Y #0 \$D40F	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3E1 A5 23 C3E3 69 01	LDA ADC STA LDA CLC ADC STA LDA ADC	#1 XCOOR+15 YCOOR+2 #64 YCOOR+14 YCOOR+3 #1
C350 C352 C355 C358 C35A ;	Sound AD 00 DC 29 01 85 02 AD 01 DC 29 01 FO 04 A4 02 D0 08 18 MKSND 69 10 E5 02 BD 0F D4 4C 5D C3 A9 00 NOSND 8D 0F D4 A5 43 NJOY	CLC ADC SBC STA JMP LDA STA	#16 TEMP \$D40F NJOY #0 \$D40F	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3E1 A5 23 C3E3 69 01 C3E5 85 2F	LDA ADC STA LDA CLC ADC STA LDA ADC STA	#1 XCOOR+15 YCOOR+2 #64 YCOOR+14 YCOOR+3 #1 YCOOR+15
C350 C352 C355 C358 C35A ; C35D C35F C361	18 MKSND 69 10 E5 02 8D 0F D4 4C 5D C3 A9 00 NOSND 8D 0F D4 A5 43 NJOY D0 4E	CLC ADC SBC STA JMP LDA STA LDA BNE	#16 TEMP \$D40F NJOY #0 \$D40F MSL1CN G011	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3E1 A5 23 C3E3 69 01 C3E5 85 2F C3E7 A4 42 C3E7 A8 42	LDA ADC STA LDA CLC ADC STA LDA ADC STA LDA	#1 XCOOR+15 YCOOR+2 #64 YCOOR+14 YCOOR+3 #1 YCOOR+15 SHPDIR+1
C350 C352 C355 C358 C35A ; C35D C35F C361 C364	18 MKSND 69 10 E5 02 8D 0F D4 4C 5D C3 A9 00 NOSND 8D 0F D4 A5 43 NJOY D0 4E AD 15 D0 29 BF	CLC ADC SBC STA JMP LDA STA LDA BNE LDA AND	#16 TEMP \$D40F NJ0Y #0 \$D40F MSL1CN G0I1 \$D015 #88F	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3E1 A5 23 C3E3 69 01 C3E5 85 2F C3E7 A4 42 C3E9 B9 75 C7 C3EC 0A	LDA ADC STA LDA CLC ADC STA LDA ADC STA LDA	#1 XCOOR+15 YCOOR+2 #64 YCOOR+14 YCOOR+3 #1 YCOOR+15 SHPDIR+1 THXT,Y
C350 C352 C355 C358 C35A ; C35D C35F C361 C364 C366	18 MKSND 69 10 55 02 8D 0F D4 4C 5D C3 A9 00 NOSND 8D 0F D4 A5 43 NJOY D0 4E AD 15 D0 29 BF 8D 15 D0	CLC ADC SBC STA JMP LDA STA LDA BNE LDA AND STA	#16 TEMP \$D40F NJ0Y #0 \$D40F MSL1CN G011 \$D015 #\$BF \$D015	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3E1 A5 23 C3E3 69 01 C3E5 85 2F C3E7 A4 42 C3E9 B9 75 C7 C3EC 0A	LDA ADC STA LDA CLC ADC STA LDA ADC STA LDY LDA ASL ASL	#1 XC00R+15 YC00R+2 #64 YC00R+14 YC00R+3 #1 YC00R+15 SHPDIR+1 THXT,Y A
C350 C352 C355 C358 C35A ; C35D C35F C361 C364 C366 C369	18 MKSND 69 10 E5 02 8D 0F D4 4C 5D C3 A9 00 NOSND 8D 0F D4 A5 43 NJOY D0 4E AD 15 D0 29 BF 8D 15 D0 AD 0D DC	CLC ADC SBC STA JMP LDA STA LDA BNE LDA AND STA LDA	#16 TEMP \$D40F NJ0Y #0 \$D40F MSL1CN GGI1 \$D015 #88F \$D015 \$D000	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3E1 A5 23 C3E3 69 01 C3E5 85 2F C3E7 A4 42 C3E9 B9 75 C7 C3EC 0A C3ED 0A	LDA ADC STA LDA CLC ADC STA LDA ADC STA LDY ASL ASL ASL	#1 XC00R+15 YC00R+2 #64 YC00R+14 YC00R+3 #1 YC00R+15 SHPDIR+1 THXT,Y A
C350 C352 C355 C358 C35A ; C35D C35F C361 C364 C366 C369 C36C	18 MKSND 69 10 E5 02 BD 0F D4 4C 5D C3 A9 00 NOSND 8D 0F D4 A5 43 NJOY D0 4E A0 15 D0 29 BF 8D 15 D0 AD 0D DC 29 10	CLC SBC STA JMP LDA STA LDA BNE LDA AND STA LDA AND	#16 TEMP \$D40F NJ0Y #0 \$D40F MSL1CN G0I1 \$D015 #\$BF \$D015 \$\$D005 #16	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3E1 A5 23 C3E3 69 01 C3E5 85 2F C3E7 A4 42 C3E9 B9 75 C7 C3EC 0A C3ED 0A C3EF 0A	LDA ADC STA LDA CLC ADC STA LDA ADC STA LDA ASL ASL ASL ASL	#1 #1 #2 #04 YC00R+15 YC00R+2 #64 YC00R+14 YC00R+3 #1 YC00R+15 SHPDIR+1 THXT,Y A A
C350 C352 C355 C358 C35A ; C35D C35F C361 C364 C366 C369 C36C C36E	18 MKSND 69 10 E5 02 BD 0F D4 4C 5D C3 A9 00 NOSND 8D 0F D4 A5 43 NJOY D0 4E AD 15 D0 29 BF 8D 15 D0 AD 00 DC 29 10 D0 41	CLC SBC STA JMP LDA STA LDA BNE LDA AND STA LDA AND STA LDA BNE	#16 TEMP \$D40F NJOY #0 \$D40F MSL1CN G0I1 \$SD015 #\$BF \$D015 \$\$D000 #16 NSH0T1	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3E1 A5 23 C3E3 69 01 C3E5 85 2F C3E7 A4 42 C3E9 B9 75 C7 C3EC 0A C3ED 0A C3ED 0A C3EF 0A C3EF 0A C3EF 0A C3EF 0A	LDA STA LDA CLC STA LDA ADC STA LDY LDA ASL ASL ASL STA	#1 XCOOR+15 YCOOR+2 #64 YCOOR+14 YCOOR+3 #1 YCOOR+15 SHPDIR+1 THXT,Y A A A XYSPD+14
C35F C361 C364 C366 C369 C36C C36E	AS AS NUOV DO 4E AD 15 DO 29 BF 8D 15 DO AD 00 DC 29 10 DO 41	CLC SBC STA JMP LDA STA LDA BNE LDA AND STA AND BNE	#16 TEMP \$D40F NJ0Y #0 \$D40F MSL1CN G0I1 \$D015 #\$BF \$D015 \$D000 #16 NSH0T1	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3E1 A5 23 C3E3 69 01 C3E5 85 2F C3E7 A4 42 C3E9 B9 75 C7 C3EC 0A C3EB 0A C3EF 0A C3EB 0A	LDA STA LDA CLC STA LDA LDA STA LDY LDA ASL ASL ASL STA LDA	#1 XC00R+15 YC00R+2 #64 YC00R+14 YC00R+3 #1 YC00R+15 SHPDIR+1 THXT,Y A A A XYSPD+14 THYT,Y
C35F C361 C364 C366 C369 C36C C36E ;	AS 4.5 NJUY D0 4E AD 15 D0 29 BF 8D 15 D0 AD 00 DC 29 10 D0 41 hot 1 fired	CLC SBC STA JMP LDA STA LDA BNE LDA AND STA AND BNE	#16 TEMP \$D40F NJ0Y #0 \$D40F MSL1CN G011 \$D015 #8BF \$D015 \$D000 #16 NSH0T1	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3EC 04 C3EC 05 05 C3EC 0A C3EC 0A C3EC 0A C3EF 0A C3EC 0A C3EF 0A C3EC 0A C3EF 0A C3EC 0A	LADC STA LDC STA LDC STA LDC STA LDC STDA LDC ASL ASL ASL ASL ASL ASL ASL ASL	#1 XC00R+15 YC00R+2 #64 YC00R+14 YC00R+3 #1 YC00R+15 THXT,Y A A A XYSPD+14 THYT,Y A
C35F C361 C364 C366 C369 C36C C36E ; ;new si	AS 4.5 NJUY D0 4E AD 15 D0 29 BF 8D 15 D0 AD 00 DC 29 10 D0 41 hot 1 fired	CLC ADC SBC STA JMP LDA STA LDA BDE LDA AND STA LAND STA LAND STA LOND STA STA LOND STA STA STA STA STA STA STA STA STA STA	#16 TEMP \$D40F NJ0Y #0 \$D40F MSL1CN GGI1 \$D015 #8BF \$D015 \$D000 #16 NSH0T1 #0 FRSND	C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3E1 A5 23 C3E3 69 01 C3E5 85 2F C3E7 A4 42 C3E9 B9 75 C7 C3EC 0A C3ED 0A C3EF 0A C3EF 0A C3EF 0A C3EF 0A C3FF 0A C3FF 0A C3FF 0A C3FF 0A C3FF 0A	LADC STA CLC ATA CLC ATA ADC ADC ASL ASL ASL ASL ASL ASL ASL ASL ASL ASL	#1 #COOR+15 YCOOR+2 #64 YCOOR+14 YCOOR+3 #1 YCOOR+15 SHPDIR+1 THXT,Y A A XYSPD+14 THYT,Y A A A
C35D C35F C361 C364 C366 C369 C36C C36E ;,new si C370 C372 C375	AS 4.5 NJUY D0 4E AD 15 D0 29 BF 8D 15 D0 AD 00 DC 29 10 D0 41 hot 1 fired AO 00	CLC ADC SBC STA JMP LDA BDE LDA BNE LDA BNE LDA BNE LDS BNE LDS BNE LDS BNE LDS BNE LDS BNE LDS BNE LDS BNE LDS BNE LDS BNE LDS BNE LDS BNE BNE BNE BNE BNE BNE BNE BNE BNE BNE	#16 TEMP \$D40F NJ0Y #0 \$D40F MSL1CN G0I1 \$D015 #88F \$D015 \$DC00 #16 NSH0T1 #0 FRSND #128	C3C0 29 10 C3C2 D0 41 ;new shot 2 fired C3C4 A0 07 C3C6 20 43 C5 C3C9 A9 80 C3C8 85 44 C3CD A5 12 C3CF 18 C3D0 69 50 C3D2 85 1E C3D4 A5 13 C3D6 69 01 C3D8 85 1F C3DA A5 22 C3DC 18 C3DD 69 40 C3DF 85 2E C3E1 A5 23 C3E1 A5 23 C3E3 69 01 C3E5 85 2F C3E7 A4 42 C3ED 0A	STA LADC STA LDC STA LDC STA LDD ASL LDA STA ASL ASL ASL ASL ASL ASL ASL ASL ASL AS	#1 #COOR+15 YCOOR+2 #64 YCOOR+2 #64 YCOOR+3 #1 YCOOR+15 SHPDIR+1 THXT,Y A A A XYSPD+14 THYT,Y A A A A A A A A A A A A A A A A A A A
C35D C35F C361 C364 C366 C369 C36C C36E ; ;new si C370 C372 C375 C377	AS 43 NJUY DO 4E AD 15 DO 29 BF 8D 15 DO AD 00 DC 29 10 DO 41 hot 1 fired AO 00 20 43 C5 A9 80 85 43	STA	MSL1CN	C3F9 85 3F	STA ADC STA LDC ADC ADC ADC ADC ADC ADC ADC ADC ADC A	#1 XC00R+15 YC00R+2 #64 YC00R+14 YC00R+3 #1 YC00R+15 SHPDIR+1 THXT,Y A A A A XYSPD+14 THYT,Y A A A A A XYSPD+15
C35D C35F C361 C364 C366 C369 C36C C36E ; ;new si C370 C372 C375 C377 C379	AS 43 NJUY DO 4E AD 15 DO 29 BF 8D 15 DO AD 00 DC 29 10 DO 41 hot 1 fired AO 00 20 43 C5 A9 80 85 43 A5 10	STA LDA	#120	C3F9 85 3F C3FB AD 15 D0	ASL STA LDA	A XYSPD+15 \$D015
C35D C35F C361 C366 C369 C36C C36E ;new st C370 C372 C375 C377 C379 C37B	AS 43 NJUY DO 4E AD 15 DO 29 BF 8D 15 DO AD 00 DC 29 10 DO 41 hot 1 fired AO 00 20 43 C5 A9 80 85 43 A5 10 18	STA LDA CLC	MSL1CN XCOOR	C3F9 85 3F C3FB AD 15 D0 C3FE 09 80	asl Sta LDA Ora	A XYSPD+15 \$D015 #\$80
C35D C35F C364 C366 C369 C36C C36E ;new si C370 C372 C375 C377 C379 C37B C37C	AS 43 NJUY DO 4E AD 15 DO 29 BF 8D 15 DO AD 00 DC 29 10 DO 41 hot 1 fired AO 00 20 43 C5 A9 80 85 43 A5 10 18 69 20	STA LDA CLC ADC	MSL1CN XCOOR #32	C3F9 85 3F C3FB AD 15 D0 C3FE 09 80 C400 8D 15 D0	STA LDA ORA STA	A XYSPD+15 \$D015 #\$80 \$D015
C35D C35F C361 C366 C369 C36C C36E ;new st C370 C372 C375 C377 C379 C37B	AS 43 NJUY DO 4E AD 15 DO 29 BF 8D 15 DO AD 00 DC 29 10 DO 41 hot 1 fired AO 00 20 43 C5 A9 80 85 43 A5 10 18	STA LDA CLC ADC STA	#32 XC00R+12	C3F9 85 3F C3FB AD 15 D0 C3FE 09 80	asl Sta LDA Ora	A XYSPD+15 \$D015 #\$80
C35F C361 C364 C366 C369 C36E ;,new si C370 C372 C377 C379 C378 C37C C37C C37C C380 C380 C382	AS 43 NJUY DO 4E AD 15 DO 29 BF 8D 15 DO AD 00 DC 29 10 DO 41 hot 1 fired AO 00 20 43 C5 A9 80 85 43 A5 10 18 69 20 85 11 69 20 85 11	STA LDA CLC ADC	#32 XCOOR+12 XCOOR+1 #1	C3F9 85 3F C3FB AD 15 DO C3FE 09 80 C400 8D 15 DO C403 C6 44 GOI2	STA LDA ORA STA	A XYSPD+15 \$D015 #\$80 \$D015
C35D C361 C364 C366 C369 C36C C36E ; new si C370 C372 C375 C377 C379 C37B C37C C37E C37E C380	AS 43 NJUY DO 4E AD 15 DO 29 BF 8D 15 DO AD 00 DC 29 10 DO 41 hot 1 fired AO 00 20 43 C5 A9 80 85 43 A5 10 18 69 20 85 10 A5 11	STA LDA CLC ADC STA LDA	#32 XC00R+12 XC00R+1	C3F9 85 3F C3FB AD 15 D0 C3FE 09 80 C400 8D 15 D0	STA LDA ORA STA	A XYSPD+15 \$D015 #\$80 \$D015

C408 AD 09 DC	LDA \$DC09	C498 F9 20 00	SBC YCOOR,Y
C40B F0 09 C40D E8	BEQ SIXTY INX	C49B 85 FD C49D B5 21	STA TEMP1 LDA YCOOR+1,X
C40E A9 60	LDA #\$60 SED	C49F 38 C4A0 F9 21 00	SEC SBC YCOOR+1,Y
C410 F8 C411 38	SEC	CANS OS FE	STA TEMP2
C412 ED 09 DC C415 D8	SBC \$DC09 CLD	C4A5 90 0F C4A7 A5 FD	BCC OWAYY LDA TEMP1
C416 85 02 SIXTY	STA TEMP	C4A9 F9 61 C7	SRC COLVTV
C418 4A C419 4A	LSR A LSR A	C4AC A5 FE C4AE F9 62 C7	LDA TEMP2 SBC COLYT+1,Y
C41A 4A	LSR A	C4B1 B0 21	BCS NCOL JMP COL
C41B 4A C41C 09 30	LSR A ORA #\$30	C4B3 4C D1 C4 C4B6 B9 20 00 OWAYY	LDA YCCORY
C41E 8D 3C 04 C421 A5 02	STA \$043C LDA TEMP	C4B9 38 C4BA F5 20	SEC SBC YCOOR,X
C423 29 0F	AND #\$0F	C4BC 85 FD	STA TEMP1
C425 09 30 C427 8D 3D 04	ORA #\$30 STA \$043D	C4BE B9 21 00 C4C1 F5 21	LDA YCOOR+1,Y SBC YCOOR+1,X
C42A 86 02	STX TEMP	C4C3 85 FE	STA TEMP2
C42C AD 36 C7 C42F 38	LDA CLK SEC	C4C5 A5 FD C4C7 FD 61 C7	LDA TEMP1 SBC COLYT,X
C430 E5 02	SBC TEMP	C4CA A5 FE	LDA TEMP2
C432 09 30 C434 8D 3A 04	ORA #\$30 STA \$043A	C4CC FD 62 C7 C4CF B0 03	SBC COLYT+1,X BCS NCOL
C437 AD OA DC C43A CD 36 C7	LDA \$DCOA CMP CLK	; C4D1 A9 00 COL	LDA #0
C43D F0 03	BEQ TIMUP	C4D3 60	RTS
C43F 4C F4 C1	JMP MAIN	C4D4 A9 01 NCOL C4D6 60	LDA #1 RTS
C442 A9 00 TIMUP	LDA #0	;	1110
C444 8D 15 D0 C447 AO 02	STA \$D015 LDY #2	;check collision of sprite x ;and each asteroid	
C449 B9 00 08 FZP	LDA \$0800,Y	;	LDA CLIBEO
C44C 99 00 00 C44F C8	STA \$0000,Y INY	C4D7 A5 45 ASTCOL C4D9 OA	LDA CLLREG ASL A
C450 D0 F7	BNE FZP	CADA DA	asl a Sta temp
C452 A9 01 C454 8D 0E DC	LDA #1 STA \$DC0E	C4DD A0 0A	LDY #10
C457 4C 8C CO	JMP TITLE	C4DF 06 02 HITL	ASL TEMP BCC NHIT
; check coord for collision		C4E3 20 5A C4	JSR CKCOL
; between sprite x and sprite y		C4E6 F0 09 C4E8 88 NHIT	BEQ HIT DEY
C45A B5 10 CKCOL	LDA XCOOR,X	C4E9 88	DEY CPY #2
C45C 38 C45D F9 10 00	SEC SBC XCOOR,Y	C4EA C0 02 C4EC D0 F1	BNE HITL
C460 85 FD	STA TEMP1	C4EC D0 F1 C4EE A9 01 C4F0 60	LDA #1 RTS
C462 B5 11 C464 F9 11 00	LDA XCOOR+1,X SBC XCOOR+1,Y	;	MIO
C467 85 FE C469 90 0F	sta temp2 BCC oway	;push asteroid C4F1 A9 01 HIT	LDA #1
C46B A5 FD	LDA TEMP1	C4F3 85 02	sta temp
C46D F9 51 C7 C470 A5 FE	SBC COLXT,Y LDA TEMP2	C4F5 C8 C4F6 E8	INY INX
C472 F9 52 C7	SBC COLXT+1,Y	C4F7 B5 30 DFLCA C4F9 30 07	LDA XYSPD,X BMI NEGA
C475 B0 5D C477 4C 95 C4	BCS NCOL JMP CKY	C4F9 30 07	LSR A
C47A B9 10 00 OWAY C47D 38	LDA XCOOR,Y	C4FC 4A	LSR A LSR A
C47E F5 10	SEC SBC XCOOR,X	; push asteroid CAF1 A9 01 HIT CAF3 85 02 CAF5 C8 CAF6 E8 CAF7 B5 30 DFLCA CAF9 30 07 CAFB 4A CAFC 4A CAFC 4A CAFE 4A CAFE 4A CAFE 4A CAFF 4C 08 C5 C502 4A NEGA	LSR A
C480 85 FD C482 B9 11 00	STA TEMP1 LDA XCOOR+1,Y	C4FF 4C 08 C5 C502 4A NEGA	JMP INFLA LSR A
C485 F5 11	SBC XCOOR+1,X		LSR A
C487 85 FE C489 A5 FD	STA TEMP2 LDA TEMP1	C504 4A C505 4A	LSR A
C48B FD 51 C7	SBC COLXT,X LDA TEMP2	C506	ORA #\$F0 CLC
C48E A5 FE C490 FD 52 C7	SBC COLXT+1,X	C509 79 30 00	ADC XYSPD,Y
C493 B0 3F	BCS NCOL	C50C 10 08 C50E C9 C0	BPL MVFA CMP #192
C495 B5 20 CKY	LDA YCOOR,X	C510 B0 0A	BCS NDFLCA
C497 38	SEC	C512 A9 C0	LDA #192

C514 C516	D0 06 C9 41 MVFA 90 02 A9 40 99 30 00 NDFLCA CA 88 C6 02 F0 D2 A9 00 60 hit sound -register y A9 00 HTSND 99 06 D4 A9 0A 99 04 D4 A9 0A 99 05 D4 A9 10 A9 04 D4 A9 06 fire sound -register y A9 00 FRSND 99 06 D4 99 04 D4 A9 11 99 04 D4 A9 28 A9 28 A9 29 B9 05 D4 A9 11 B9 04 D4 A9 11 B9 60 A9 90 KILL 99 F8 07 B9 05 C6 ich crowd cheers E8 A9 01 B8 5 C7 B9 05 C6 ich crowd cheers E8 A9 01 B5 48 A9 00 CTSND	BNE CMP	NDFLCA #65	C5A1	DO ED		BNE	EXPLO
C518	90 02	BCC	NDFLCA	;chee	ring sound			
C51C	49 40 00 30 00 NDELCA	LDA CTA	#04 VVCDD V	C5A3	A9 80		LDA	#128
C51F	CA	DEX	ATOPU,T	CEAG	00 12 D	4	SIA	\$D412
C520	88	DEY		C5AA	8D 13 D	4	STA	#-000 \$D#12
C521	C6 02	DEC	TEMP	C5AD	A9 11		I DA	#17
C523	F0 D2	BEQ	DFLCA	C5AF	8D OF D	4	STA	\$D40F
C525	A9 00	LDA	#0	C5B2	A9 A0		LDA	#160
	00	HIS		C5B4	8D 16 D	4	STA	\$D416
; :make	hit sound -register v			CEBU	A9 84		LDA	#\$84
;	seame register y			C5BC	A9 1F	•	I DA	ΦU41/ #31
C528	A9 00 HTSND	LDA	#0	C5BE	8D 18 D	4	STA	\$D418
C52A	99 06 D4	STA	\$D406,Y	C5C1	A9 81		LDA	#129
C52D	99 47 00	SIA	FRSCNT,Y	C5C3	8D 12 D	4	STA	\$D412
C533	A9 0A D4	IDΔ	ֆυ 4υ4 ,τ #10	CECO	A9 30	n	LDA	#%00111100
C535	99 01 D4	STA	\$D401.Y	C5CR	ΔΟ 15 Δ	J	SIA	ֆ DU15 #70
C538	A9 35	LDA	#\$35	C5CD	85 46		STA	TIMONT
C53A	99 05 D4	STA	\$D405,Y	C5CF	20 OB C	CHEER	JSR	MOVE
CESE	A9 21	LDA	#33	C5D2	20 F2 C	5	JSR	CROWD
C542	99 04 D4 60	RTS	⊅ 0404,Υ	C5D5	A9 01	THE	LDA	#1
:	•	1110		C5DA	DO FR	J IIVIRZ	BII	\$UCUF TMD2
;make	fire sound -register y			C5DC	A9 09		IDA	#Q
<u>.</u>				C5DE	8D 0F D0	3	STA	\$DC0F
C543	A9 00 FRSND	LDA	#0	C5E1	C6 46		DEC	TIMONT
C548	99 UD D4	SIA	\$D406,Y	C5E3	DO EA		BNE	CHEER
C54B	A9 28	IDA	ΦD404,1 #4Ω	C5E7	A9 UU	1	LDA	#0
C54D	99 47 00	STA	FRSCNT.Y	C5FA	A9 0F	•	I DA	ΦD417 #15
C550	99 01 D4	STA	\$D401,Y	C5EC	8D 18 D4	ļ	STA	\$D418
C553	A9 09	LDA	#9	C5EF	4C 7C C1		JMP	SET
C558	99 UO D4 AQ 11	SIA	\$U4U5,Y #17		h ahaaaa			
C55A	99 04 D4	STA	\$D404 Y	SWILC	n characters	on crowa		
C55D	60	RTS	4 =,,,	, C5F2	C6 48	CROWD	DEC	CRWDCN
į				C5F4	DO 14		BNE	NMCW
CEEE	AO 00 VII I	LDA	.4444	C5F6	A9 08		LDA	#8
C560	99 F8 07	STA	# 144 2040 V	CEEA	85 48		STA	CRWDCN
C563	B9 85 C7	LDA	CRWDT.Y	CSEC	AD 87 C7		LDA	#10 CRWDT+2
C566	8D 05 C6	STA	WCRWD+1	C5FF	49 01		EOR	#1
;set wi	nich crowd cheers			C601	8D 87 C7	1	STA	CRWDT+2
C564	10 10 10	INX	ш4	C604	99 00 04	WCRWD	STA	\$0400,Y
C56C	85 48	STA	# I CRWDCN	0607	88 40 FA		DEY	MODILID
C56E	A9 20	LDA	#\$20	C60A	60 FA	NMCW	DTC	WCHWD
C570	20 EE C6	JSR	SCORE	;	•••	11111011	1110	
;				;move	sprites			
C573	AO 07	I DV	#7	;	AO OF	MOVE	1.51	
C575	ion A0 07 A9 00 88 CTSND 99 0E D4 D0 FA A9 0A 8D 13 D4 A9 08 8D 0F D4	LDA	#7 #0	COOR	AZ UE	MOVE	LDX	#14
C577 C578	88 CTSND	DEY	•	add x	speed to co	ord		
C578	99 0E D4	STA	#U \$D40E,Y CTSND #10 \$D413 #8 \$D40F	C60D	B5 30	POSI	LDA	XYSPD,X
C57B C57D	DO FA	BNE	CTSND	C60F	10 1D		BPL	ADD
C57F	8D 13 D4	STA	# IU \$D#13	C611	C9 FE		CMP	#254
C582	A9 08	LDA	#8	C615	75 10		RCS.	B2 XCOOR,X
C584	8D 0F D4	STA	\$D40F	C617	95 10		STA	XCOOR,X
U001	ME OI	LDA	#129	C619	B5 11		LDA	XCOOR+1,X
C589 C58C	8D 12 D4	STA	\$D412	C61B	E9 00		SBC	#0
C58E	A9 1E 85 46	LDA STA	#30 TIMCNT	C61D C61F	95 11 C9 05		STA	XCOOR+1,X
C590	20 OB C6 EXPLO	JSR	MOVE	C621	90 28		CMP BCC	#5 REV
C593	A9 01	LDA	#1	C623	DO 2E		BNE	B2
C595 C598	2C OF DC TMR DO FB	BIT	\$DC0F	C625	B5 10		LDA	XCOOR,X
C59A	A9 09	bne LDA	TMR #9	C627	C9 40		CMP	#64
C59C	8D OF DC	STA	\$DCOF	C629 C62B	BO 28 4C 4B C6		BCS JMP	B2 REV
C59F	C6 46	DEC	TIMONT	;	.5 .5 00		U1111	· 11 ¥

C62E		ADD	CMP	#3	C6B2 90 08		BCC	В3
C630 C632 C633 C635 C637	90 21 18 75 10 95 10 B5 11 69 00		BCC CLC ADC STA LDA ADC	B2 XCOOR,X XCOOR,X XCOOR+1,X #0	;reverse y direction C6B4 B5 31 C6B6 49 FF C6B8 A8 C6B9 C8	n REVY	LDA EOR TAY INY	XYSPD+1,X #\$FF
C639 C63B C63D	95 11 DD 89 C7		STA CMP	XCOOR+1,X BNCXT+1,X	C6BA 94 31 ;		STY	XYSPD+1,X
C640 C642 C644 C646 C649	90 11 D0 07 B5 10 DD 88 C7 90 08		BCC BNE LDA CMP BCC	B2 REV XCOOR,X BNCXT,X B2	;divide y coord for C6BC B5 21 C6BE 85 02 C6C0 B5 20 C6C2 A0 06 C6C4 46 02	position B3 L12	LDA STA LDA LDY LSR	YCOOR+1,X TEMP YCOOR,X #6 TEMP
	-	se x direction			C6C6 6A C6C7 88		ROR DEY	A
C64B C64D C64F C650	B5 30 I 49 FF A8 C8	REV	LDA EOR TAY INY	XYSPD,X #\$FF	C6C8 D0 FA C6CA 9D 01 D0)	BNE STA	L12 \$D001,X
C651	94 30 x coord for p	nocition	STY	XYSPD,X	C6CD CA C6CE CA C6CF 30 03		DEX DEX BMI	NPOSI
C653 C655 C657	B5 10 Ì 85 02 A0 08	B2	LDA STA LDY	XCOOR,X TEMP #8	C6D1 4C 0D C6 C6D4 A5 49 C6D6 8D 10 D0	NPOSI	JMP LDA STA	POSI POSMSB \$D010
C659 C65B C65D C65F	B5 11 C9 30 90 02 E9 30		LDA CMP BCC SBC	XCOOR+1,X #48 HIBIT #48	;update fire sound C6D9 A4 47 C6DB F0 06		LDY BEQ	FRSCNT NFRS
C661 C663 C665 C666		HIBIT L11	ROL ASL ROL CMP	POSMSB TEMP A #48	C6DD 88 C6DE 84 47 C6E0 8C 01 D4 C6E3 A4 4E	I NFRS	DEY STY STY LDY	FRSCNT \$D401 FRSCN2
C668 C66A C66C	90 04 E9 30 E6 02		BCC SBC INC	DVCT #48 TEMP	C6E5 F0 C6 C6E7 88 C6E8 84 4E C6EA 8C O8 D4	ı	BEQ DEY STY STY	NFRS2 FRSCN2 \$D408
C66E C66F C671	88 D0 F2 A5 02	DVCT	dey Bne Lda	L11 TEMP	C6ED 60 ;	NFRS2	RTS	VD-100
C673	9D 00 D0		STA	\$D000,X	;add to score -pla			
C676 C678 C67A C67C C67E C680 C682	speed to coo B5 31 10 1D C9 FE B0 3E 75 20 95 20 B5 21	ord	LDA BPL CMP BCS ADC STA LDA	XYSPD+1,X ADDY #254 B3 YCOOR,X YCOOR,X YCOOR,X YCOOR+1,X	C6EE F8 C6EF 18 C6FO 7D 32 C7 C6F3 9D 32 C7 C6F6 BD 33 C7 C6F9 69 00 C6FB 9D 33 C7 C6FE D8		SED CLC ADC STA LDA ADC STA CLD	SCRT,X SCRT,X SCRT+1,X #0 SCRT+1,X
C684 C686 C688	E9 00 95 21 C9 11		SBC STA CMP	#0 YCOOR+1,X #17	display score	DSCOR	LDY	#1
C68A C68C C68E C690 C692 C694	90 28 D0 2E B5 20 C9 80 B0 28 4C B4 C6		BCC BNE LDA CMP BCS JMP	REVY B3 YCOOR,X #128 B3 REVY	C701 AD 34 C7 C704 85 FD C706 AD 35 C7 C709 85 FE C70B A2 04	,	LDA STA LDA STA LDX	SCRT+2 TEMP1 SCRT+3 TEMP2 #4
; C697 C699 C69B	C9 03 90 21 18	ADDY	CMP BCC CLC	#3 B3	C70D A9 00 C70F 06 FD C711 26 FE C713 2A C714 CA	SFT	LDA ASL ROL ROL DEX	#0 TEMP1 TEMP2 A
C69C C69E C6A0 C6A2	75 20 95 20 B5 21 69 00		ADC STA LDA ADC	YCOOR,X YCOOR,X YCOOR+1,X #0	C715 D0 F8 C717 09 30 C719 99 28 04 C71C C8		BNE ORA STA INY	SFT #\$30 \$0428,Y
C6A4 C6A6 C6A9 C6AB C6AD	95 21 DD 99 C7 90 11 D0 07 B5 20		STA CMP BCC BNE LDA	YCOOR+1,X BNCYT+1,X B3 REVY YCOOR,X	C71D C0 05 C71F D0 0C C721 A0 23 C723 AD 32 C7	,	CPY BNE LDY LDA	#5 SCOR2 #35 SCRT
CEAF	DD 98 C7		CMP	BNCYT,X	C726 85 FD		STA	TEMP1

C728 C72B	AD 33 C7 85 FE	7	LDA STA	SCRT+1 TEMP2	C7FD	40 40	72	.BYT	64,64,114,64,64,64, 64,73
C72D C72F	CO 27 DO DA	SCOR2	CPY BNE	#39 NXDGT	C805	5D 30	30	.BYT	93,48,48,48,48,93,1 32,132
C731	60		RTS		C80D	84 84	84	.BYT	132,132,132,132,13 2,132,132,132
C732 C736	00 00 00 01	SCRT CLK	.BYT .BYT	0,0,0,0 1	C815	84 5D	30	.BYT	132,93,48,58,48,48, 93,132
C737	ŌÍ	SPD	.BYT	i	C81D	84 84	84	.BYT	132,132,132,132,13 2,132,132,132
;hum : C738	ound 00 06 00	SNDT	.BYT	0,6,0,0,17,15,0	C825	84 84	5D	.BYT	132,132,93,48,48,48 .48.93
C73F C746	04 03 00 04 0C 00)	.BYT .BYT	4,3,0,0,21,15,0 4,12,0,0,21,15,0	C82D	6B 40	40	.BYT	107,64,64,64,64,113 .64.64
C74D	00 00 00		BYT	0,0,0,15	C835	40 40	40	.BYT	64,64,64,64,64,64,6 4,64
;width C751	of sprites 30 03 30	COLXT	.WOR	816,816	C83D	40 71	40	.BYT	64,113,64,64,64,64, 113,64
C755 C759	80 04 80 80 04 80	1	.WOR	1152,1152 1152,1152	C845	40 40	40	.BYT	64,64,64,64,64,64,6 4.64
C75D	FO 00 FO		.WOR	240,240	C84D	40 40	71	.BYT	64,64,113,64,64,64, 64,115
height; C761	of sprites 00 03 00	COLYT	.WOR	768,768	C855	5D 20	20	.BYT	93,32,32,32,32,32,3 2.32
C765 C769	CO 04 CO	1	.WOR	1216,1216 1216,1216	C85D	20 20	20	.BYT	32,32,32,128,32,32, 32,32
C76D	00 01 00		.WOR	256,256	C865	20 20	20	.BYT	32,32,32,32,32,32,3 2.32
;accele C771	rations for o		.BYT	250,251,252,254	C86D	20 20	20	.BYT	32,32,32,32,32,32,3 2.32
C775 C779	00 02 04 06 05 04	THXT	.BYT .BYT	0,2,4,5 6,5,4,2	C875	20 20	20	.BYT	32,32,32,32,32,32,3 2.93
C77D C781	00 FE FC	;	.BYT .BYT	0,254,252,251 250,251,252,254	C87D	5D 20	20	.BYT	93,32,32,32,32,32,3 2.32
;	position		ווט.	200,201,202,204	C885	20 20	20	.BYT	32,32,32,32,32,32,3 2.32
C785	3F 2E	CRWDT	.BYT	63,46	C88D	20 20	20	.BYT	2,32 32,32,32,32,32,32,32,3 2,32
;crowd C787	character 85		.BYT	133	C895	20 20	20	.BYT	32,32,32,32,32,32,3 2,32
;	coord for	enrite	ווט.	100	C89D	20 20	20	.BYT	32,32,32,32,32,32,3 2,93
C788 C78C	FO 3C FO 70 3B 70	BNCXT	.WOR	15600,15600 15216,15216	C8A5	5D 20	20	.BYT	93,32,32,32,128,32, 32,32
C790 C794	70 3B 70 30 3F 30		.WOR	15216,15216 16176,16176	C8AD	20 13	20	.BYT	32,19,32,16,32,1,32,
; ;max y			.won	10170,10170	C8B5	20 05	20	.BYT	32,5,32,32,32,1,32, 18
C798 C79C	00 3B 00 00 39 00		.WOR	15104,15104 14592,14592	C8BD	20 05	20	.BYT	32,5,32,14,32,1,32,3
C7A0 C7A4	00 39 00 00 3D 00		.WOR	14592,14592 15616,15616	C8C5	20 20	20	.BYT	2 32,32,32,32,32,32,3 2,93
;	variable valu			10010,10010	C8CD	5D 20	20	.BYT	93,32,32,32,32,32,3 2,32
C7A8	90 06 D0		.WOR	1680,15312,8448,8 448	C8D5	80 63	63	.BYT	128,99,99,99,99,99, 99,99
C7B0 C7B8	00 21 00 C0 25 C0		.WOR	8448,8448,0,0 9664,9664,5696,81	C8DD	63 63	63	.BYT	99,99,99,99,99,9
C7C0	CO 29 80		.won	92 10688,13184,0,0	C8E5	63 63	63	.BYT	9,99 99,99,99,99,99,99,3
C7C8 C7D0	00 00 00		.WON .BYT .BYT	0,0,0,0,0,0,0,0	C8ED	20 20	20	.BYT	2,32 32,32,32,129,32,32,
C7D8	01 04 0C		.BYT	1,4,12,0,0	C8F5	5D 20	20	.BYT	32,93 93,32,32,32,32,32,32,3
;title so C7DD	reen 55 40 40	SCREEN	.BYT	85,64,64,64,64,114,	C8FD	20 20	20	.BYT	2,32 32,32,32,32,2,25,58, 32
0,00	JJ 40	CORLLIN	ווט.	64,64	C905	02 12		.BYT	2,18,25,1,14,32,6,9
C7E5	40 40 40		RVT	RA RA RA RA RA RA C	rann	חר חב			10 5 10 20 20 20 20
C7E5	40 40 40		.BYT	64,64,64,64,64,64,6 4,64 64,114,64,64,64,64	C90D	0C 05		.BYT	12,5,19,32,32,32,32, 32 32 32 32 32 32 32 32 3
C7E5 C7ED C7F5	40 40 40 40 72 40 40 40 40		.BYT .BYT .BYT	4,64	C915	0C 05 20 20 :	20	.BYT .BYT	

C925	20 20 20	.BYT	32,32,32,32,32,32,3 2.32	CA5D	5D 20 20	.BYT	93,32,32,32,32,32,3
C92D	20 20 20	.BYT	32,32,32,32,32,32,3 2.32	CA65	20 20 20	.BYT	2,32 32,32,32,32,32,128,
C935	20 20 20	.BYT	32,32,32,131,32,32,	CA6D	20 20 20	.BYT	32,32 32,32,32,32,32,32,32,3
C93D	20 20 20	.BYT	32,32 32,32,32,32,32,32,3	CA75	20 20 20	.BYT	2,32 32,32,32,32,32,32,32,3
C945	5D 20 20	.BYT	2,93 93,32,32,32,32,32,32,3	CA7D	20 20 20	.BYT	2,32 32,32,32,32,32,32,3
C94D	20 20 20	.BYT	2,32 32,32,32,32,32,32,32,3	CA85	5D 20 20	.BYT	2,93 93,32,32,32,32,32,32,3
C955	20 82 20	.BYT	2,32 32,130,32,32,32,32,32,	CA8D	20 20 20	.BYT	2,32 32,32,32,32,32,32,32,3
C95D	20 20 20	.BYT	32,32 32,32,32,32,32,32,32,1	CA95	20 20 20	.BYT	2,32 32,32,32,32,32,32,1
C965	80 20 60	.BYT	28,32 128,32,96,32,32,32,	CA9D	20 20 20	.BYT	28,32 32,32,32,32,32,32,3
C96D	5D 20 20	.BYT	32,93 93,32,32,32,32,32,32,3	CAA5	20 20 20	.BYT	2,32 32,32,32,32,32,128,
C975	20 20 20	.BYT	2,32 32,32,32,32,32,32,32,3	CAAD	5D 20 20	.BYT	32,93 93,32,32,129,32,32,
C97D	20 20 20	.BYT	2,32 32,32,32,32,32,32,32,3	CAB5	20 20 20	.BYT	32,32 32,32,32,32,32,32,32,3
C985	20 20 20	.BYT	2,32 32,32,32,128,32,32,	CABD	20 20 20	.BYT	2,32 32,32,32,32,32,129,
C98D	20 20 20	.BYT	32,32 32,32,32,32,32,32,32,3	CAC5	20 20 20	.BYT	32,32 32,32,32,130,32,32,
C995	5D 20 20	.BYT	2,93 93,32,32,32,128,32,	CACD	20 20 20	.BYT	32,32 32,32,32,32,32,32,1
C99D	20 06 31	.BYT	32,32 32,6,49,32,45,32,19,	CAD5	5D 20 20	.BYT	28,93 93,32,32,32,32,32,3
C9A5	01 12 14	.BYT	20 1,18,20,32,7,1,13,5	CADD	20 20 20	.BYT	2,32 32,32,32,32,32,32,32,1
C9AD	20 20 20	.BYT	32,32,32,32,32,32,3 2,32	CAE5	05 05 04	.BYT	9,16 5,5,4,32,61,32,53,32
C9B5	20 20 20	.BYT	32,32,32,32,32,32,3 2,93	CAED	81 20 20	.BYT	129,32,32,32,32,128 ,32,32
C9BD	5D 20 20	.BYT	93,32,32,32,32,32,3 2,32	CAF5	81 20 20	.BYT	129,32,32,32,32,32, 32,93
C9C5	20 20 81	.BYT	32,32,129,32,32,32, 32,32	CAFD	5D 20 20	.BYT	93,32,32,32,32,32,3 2,32
C9CD	20 20 20	.BYT	32,32,32,32,32,32,3 2,32	CB05	20 20 20	.BYT	32,32,32,32,32,32,3 2,32
C9D5	20 20 20	.BYT	32,32,32,32,32,32,3 2,32	CBOD	20 20 20	.BYT	32,32,32,32,32,32,3 2,32
C9DD	20 20 20	.BYT	32,32,32,32,32,32,3 2,93	CB15	20 20 20	.BYT	32,32,32,32,32,32,3 2,32
C9E5	5D 20 20	.BYT	93,32,32,32,32,32,3 2,32	CB1D	20 20 20	.BYT	32,32,32,32,32,32,3 2,93
C9ED C9F5	20 06 33 01 0E 07	.BYT .BYT	32,6,51,32,45,32,3,8 1,14,7,5,32,19,16,5	CB25	5D 20 20	.BYT	93,32,32,32,32,32,3 2,32
C9FD	05 04 20	.BYT	5,4,32,32,32,32,32, 32	CB2D	20 20 80	.BYT	32,32,128,32,32,32, 32,20
CA05	80 83 20	.BYT	128,131,32,32,32,32 ,32,93	CB35	09 0D 05	.BYT	9,13,5,32,61,32,50, 58
CAOD	5D 20 83	.BYT	93,32,131,32,32,32, 32.32	CB3D	30 30 20	.BYT	48,48,32,32,128,32, 32,32
CA15	20 20 80	.BYT	32,32,128,32,32,129 .32,32	CB45	20 20 20	.BYT	32,32,32,32,32,32,3 2,93
CA1D	20 20 20	.BYT	32,32,32,32,32,32,3 2,32	CB4D	5D 20 83	.BYT	93,32,131,32,32,32, 32,32
CA25	20 20 20	.BYT	32,32,32,32,32,128, 32,32	CB55	20 20 20	.BYT	32,32,32,32,32,32,3 2,129
CA2D	20 20 20	.BYT	32,32,32,32,32,32,3 2,93	CB5D	20 20 20	.BYT	32,32,32,128,32,32, 32,32
CA35	5D 20 81	.BYT	93,32,129,32,32,32, 32,32	CB65	20 20 20	.BYT	32,32,32,32,32,32,3 2,32
CA3D CA45	20 06 35 01 0E 07	.BYT .BYT	32,6,53,32,45,32,3,8 1,14,7,5,32,20,9,13	CB6D	20 20 20	.BYT	32,32,32,32,32,32,3 2,93
CA4D CA55	05 20 0C 20 20 20	.BYT .BYT	5,32,12,9,13,9,20,32 32,32,32,32,32,32,3	CB75	5D 20 20	.BYT	93,32,32,32,32,32,3 2.32
			2,93	CB7D	20 20 20	.BYT	32,32,32,32,32,32,3 2.32

CB85	20 20	20	.BYT	32,32,32,32,32,32,3 2,32	CD05	00 0	1 1F		BYT	0,1,31,248,0,1,15,24 0
CB8D	20 20	20	.BYT	32,32,32,32,32,32,1	CDOD	00 0			BYT	0,1,15,240,0,1,7,224
				28,32	CD15	00 0			BYT	0,1,7,224,0,1,3,192
CB95	20 20	20	.BYT	32,32,32,32,32,32,3	CD1D	00 0			BYT	0,1,3,192,0,1,1,128
				2,93	CD25	00 20			BYT	0,32,12,0,2,13,0,2
CB9D	4A 40	40	.BYT	74,64,64,64,64,64,6 4.64	CD2D	OF E	C 00		BYT	15,236,0,1,15,248,0, 1
CBA5	40 40	40	.BYT	64,64,64,64,64,64,6 4,64	CD35	OF FO	00		BYT	15,240,0,1,15,224,0, 1
CBAD	40 40	40	.BYT	64,64,64,64,64,64,6 4,64	CD3D	OF C	00 0		BYT	15,192,0,1,15,128,0, 1
CBB5	40 40	40	.BYT	64,64,64,64,64,64,6 4,64	CD45 CD4D	0F 00			BYT BYT	15,0,2,14,0,2,12,0 30,3,0,2,3,0,2,7
CBBD	40 40	40	.BYT	64,64,64,64,64,64,6	CD55	80 0			BYT	128,0,1,7,192,0,1,7
				4,75	CD5D	FO 0			BYT	240,0,1,15,254,0,1,
CBC5 CBCD	00 00		.BYT .BYT	0,0,0,0,0,0,0,0 0,0,0,0,0,0,0,0	CD65	F8 00	01		BYT	15 248,0,1,15,224,0,1,
CBD5	80 80	92	.BYT	128,128,146,147,14						31
				8,149,145,145	CD6D	80 00			BYT	128,0,1,30,0,2,24,0
;					CD75	25 C			BYT	37,192,0,1,1,128,0,1
	cted sp				CD7D	03 C			BYT	3,192,0,1,7,224,0,1
CBDD		00 SPRITE	.BYT	1,128,0,1,3,192,0,1	CD85	OF FO) 00	•	BYT	15,240,0,1,31,240,0,
CBE5	03 CO		.BYT	3,192,0,1,7,224,0,1	0000	05 5			D) CT	1
CBED	07 E0		.BYT	7,224,0,1,15,240,0,1	CD8D	3F F	5 00	•	BYT	63,248,0,1,127,254, 0,45
CBF5	OF FO	UU	.BYT	15,240,0,1,31,248,0,	CD95	1C 0	າ ດວ		BYT	28,0,2,120,0,1,3,248
CBFD	1F F8	00	.BYT	21 249 0 1 49 12 0	CD9D	00 0			BYT	0,1,15,248,0,1,127,2
	11 10	00	.DTI	31,248,0,1,48,12,0, 36						48
CC05	30 00		.BYT	48,0,2,112,0,2,240,0	CDA5	00 0			BYT	0,1,15,248,0,1,3,248
CCOD	01 01		.BYT	1,1,240,0,1,3,240,0	CDAD	00 0			BYT	0,2,120,0,2,28,0,44
CC15	01 07		.BYT	1,7,240,0,1,15,240,0	CDB5	7F FI	E 00		BYT	127,254,0,1,63,248,
CC1D	01 1F	FO	.BYT	1,31,240,0,1,55,240,	0000	45 5			D) CT	0,1
0005	00 00	00	D) CT	0	CDBD	1F F	J 00		BYT	31,240,0,1,15,240,0,
CC25 CC2D	02 B0		.BYT	2,176,0,2,48,0,36,12	CDC5	07 E	n nn		BYT	7 224 0 1 2 102 0 1
CC35	00 02 03 F8		.BYT .BYT	0,2,60,0,2,252,0,1	CDCD	01 8			BYT	7,224,0,1,3,192,0,1 1,128,0,2,192,0,32,
CC3D	3F F8		.BYT	3,248,0,1,15,248,0,1 63,248,0,1,7,240,0,1	ODOD	01 0	, 00	•	ы	1, 120,0,2, 192,0,32, 48
CC45	01 F0		.BYT	1.240.0.2.240.0.2.96	CDD5	00 0	30		BYT	0,2,60,0,2,63,0,2
CC4D	00 02		.BYT	0,2,96,0,41,127,254,	CDDD	1F C			BYT	31,192,0,1,31,240,0,
0010	00 02	•	.511	0,2,30,0,41,121,204,		•		•		1
CC55	01 1F	FC	.BYT	1,31,252,0,1,15,248,	CDE5	1F F	C 00		BYT	31,252,0,1,15,224,0,
				0						1
CC5D	01 OF		.BYT	1,15,240,0,1,7,224,0	CDED	0F 80			BYT	15,128,0,1,15,0,2,6
CC65	01 03		.BYT	1,3,192,0,1,1,128,0	CDF5	00 0			BYT	0,2,6,0,30,12,0,2
CC6D	01 03		.BYT	1,3,0,36,56,0,2,30	CDFD	0E 00			BYT	14,0,2,15,0,2,15,128
CC75	00 02	11-	.BYT	0,2,31,192,0,1,31,2 40	CE05	00 0	Ur	•	BYT	0,1,15,192,0,1,15,2 24
CC7D	00 01	1F	.BYT	0,1,31,254,0,1,31,2	CEOD	00 0	1 OF		BYT	0,1,15,240,0,1,15,2
		••		40						48
CC85	00 01	1F	.BYT	0,1,31,192,0,1,30,0	CE15	00 0			BYT	0,1,15,236,0,1,13,0
CC8D	02 38	00	.BYT	2,56,0,36,3,0,2,1	CE1D	02 00			BYT	2,12,0,33,8,16,0,1
CC95	80 00		.BYT	128,0,1,3,192,0,1,7	CE25	04 3			BYT	4,50,0,1,6,20,0,1
CC9D	E0 00	01	.BYT	224,0,1,15,240,0,1,	CE2D	14 A	4 00		BYT	20,164,0,1,24,204,0,
0045	F0 00	04	D) C	15	CESE	00.00			D)/T]
CCA5	F8 00	UI	.BYT	248,0,1,31,252,0,1,1	CE35	03 00 4A 00			BYT	3,0,2,109,28,0,1,8
COAD	FF 00	07	D) CT	27	CE3D CE45	00 O			BYT	74,0,2,192,0,1,9,48
CCAD	FE 00	21	.BYT	254,0,39,192,0,2,19	CE4D	60 00			BYT Byt	0,1,1,0,3,128,0,29 96,0,2,240,0,2,96,0
CCB5	01 01	EO	.BYT	2,0 1,1,224,0,1,3,224,0	CE55	3A FI			BYT	58,255,0,1,15,190,2
CCBD	01 OF		.BYT	1,15,224,0,1,127,24	OLOG	יאט	w	•	ווט	40.14
0000	01 01	LU	.511	0.0	CE5D	FF FC	3F		BYT	255,240,63,249,124,
CCC5	01 1F	FO	.BYT	1,31,240,0,1,7,240,0			,	•		63,249,188
CCCD	01 01		.BYT	1,1,248,0,2,120,0,2	CE65	3D 6/	A B8	_	BYT	61,106,184,245,123,
CCD5	18 00		.BYT	24.0,36.48.0.2,176.0				•	·	218,181,186
CCDD	01 37		.BYT	1,55,240,0,1,31,240,	CE6D	6A F	5 B6		BYT	106,245,182,166,24
				0						6,182,166,251
CCE5	01 OF		.BYT	1,15,240,0,1,7,240,0	CE75	DA 56	5 FA		BYT	218,86,250,106,90,5
CCED	01 03		.BYT	1,3,240,0,1,1,240,0	AF==				D	8,170,88
CCF5	02 F0		.BYT	2,240,0,2,112,0,2,48	CE7D	3A A	8A c		BYT	58,165,168,22,150,8
CCFD	00 23	30	.BYT	0,35,48,12,0,1,31,2	CEOE	60.0			DVC	8,11,86
				48	CE85	60 OI	5 29	•	BYT	96,11,89,160,0,1,17
										0,0

CE8D	0C FF 00	.BYT	12,255,0,1,15,239,1
CE95	FF B0 3D	.BYT	76,11 255,176,61,127,252,
CE9D	2F E5 B8	.BYT	61,181,172 47,229,184,255,166,
CEA5	DA E5 AA	.BYT	250,255,171 218,229,170,105,24
CEAD	EF 96 FB	.BYT	6,234,170,250 239,150,251,117,15
CEB5	3A 65 98	.BYT	0,58,181,152 58,101,152,37,154,8
CEBD	60 0A 55	.BYT	8,9,85
			96,10,85,160,0,1,17 0,0
CEC5	0C FF 00	.BYT	12,255,0,1,3,255,24 0,14
CECD	D7 F0 OE	.BYT	215,240,14,219,252, 59,255,172
CED5	3B EA 68	.BYT	59,234,104,239,174, 186,239,181
CEDD	AA FE D5	.BYT	170,254,213,166,25 4.213,230,245
CEE5	96 D6 F6	.BYT	150.214.246.235.23
CEED	3A AA 58	.BYT	0,59,239,88 58,170,88,42,153,15
CEF5	60 0A 55	.BYT	2,9,153 96,10,85,160,0,1,17
CEFD	0C FF 00	.BYT	0,0 12,255,0,1,15,251,2
CF05	FF FO 3B	.BYT	40,14 255,240,59,255,252,
CFOD	3F 6E 98	.BYT	59,90,172 63,110,152,111,109,
CF15	AA FE 6A	.BYT	174,191,182 170,254,106,102,24
CF1D	AE 96 FE	.BYT	6,186,182,219
			174,150,254,181,86, 58,181,152
CF25	39 A5 98	.BYT	57,165,152,42,229,1 52,9,90
CF2D	60 0A 55	.BYT	96,10,85,160,0,1,17 0,0
CF35	OB	.BYT	11
	ned characters	D) CT	000400000
CF36 CF3E	00 00 00 CHARAC 00 00 00	.BYT .BYT	0,0,0,16,0,0,0,0 0,0,0,24,0,0,0
CF46	20 04 00	.BYT	32,4,0,58,92,0,32,4
CF4E	00 10 49	.BYT	0,16,73,24,24,146,8, 0
CF56	33 CC 33	.BYT	51,204,51,204,51,20 4,51,204
CF5E	66 99 66	.BYT	102,153,102,153,10
;			2,153,102,153
;color : CF66	for top line OF OE OE TPCOLR	.BYT	15,14,14,14,14,15,1
CF6E	OE OE OE	.BYT	4,14 14,14,14,14,14,14,14,1
			4,14
CF76 CF7E	0E 0F 04 05 05 05	.BYT .BYT	14,15,4,4,4,4,15,5 5,5,5,5,5,5,5,5
CF86	05 05 0F	.BYT	5,5,15,5,5,5,5,15

Saloon Shootout

Source code by David Hensley, Jr. and Kevin Mykytyn

2800		•=	10240	281A	A9 00 80 5C 03 8D 5D 03 START A9 93 20 D2 FF 20 82 33 20 4C 2F 20 5D 34 20 AD 2E 20 7O 38 20 18 2E 20 FC 29 CE 08 28 LOOP DO DO C 28	LDA	#0
; and 3				281C	8D 5C 03	STA	HIGH
2800	TEMP0	=	2	281F	8D 5D 03	STA	HIGH+1
; and 5				2822	START	=	•
2800	FREE0	=	4	2822	A9 93	LDA	#"{CLR}" \$FFD2
· and 253				2824	20 D2 FF	JSR	\$FFD2
2800	NEWO CARDS2 GOODCARD POSITION SURPRISE	=	252	2827	20 B2 33	JSR	HUH
2800	CARDS2	=	828	282A	20 4C 2F	JSR	CHARINIT
2800	GOODCARD	=	838	282D	20 5D 34	JSR	Drawscreen
2800	POSITION	=	839	2830	20 AD 2E	JSR	INIT
2800	SURPRISE HCOUNT OCOUNT WINDOWL WINDOWH HORIZ	=	842	2833	20 70 38	JSR	FIXCARDS
2800	HCOUNT	=	843	2836	20 18 2E	JSR	DGUN
2800	OCOUNT	_	844	2839	20 FC 29	JSR	HOUT
2800	WINDOWL	_	845	283C	CE 0B 28 LOOP	DEC	GLASSL
2800	WINDOWH	_	846	283F	D0 0C	BNE	NOGLASS
2800			847	2841	AD 0C 28	LDA	GLASSH
2800	INDEX	=	848	2844	8D OB 28	STA	GLASSL
; and 851				2847	20 08 30	JSR	GLASS
2800	SCORE	=	850	284A	20 5F 2A	JSR	LOOK
; and 853 2800				284D	CE 09 28 NOGLASS	DEC	FALLL
2800	TIME	_	852	2850	DO OC	BNE	NOFALL
2800	COMPUTER	_	854	2852	AD 0A 28	LDA	FALLH
2800	JIFF	=	855	2855	8D 09 28	STA	FALLL
2800	TIME COMPUTER JIFF BULLETS FLAG	_	856	2858	20 8D 30	JSR	FALL
2800	FLAG	=	857	285B	20 2D 2A	JSR	BULLOUT
; and 859				285E	CE 61 03 NOFALL	DEC	MOUSEL
2800	SCREEN	222	858	2861	D0 09	BNE	NOMOUSE
; and 861				2863	AD 62 03	LDA	MOUSEH
2800	HIGH	=	860	2866	8D 61 03	STA	MOUSEL
2800	GLASSCOUN	_	862	2869	20 F7 2A	JSR	MOUSE
2800	MOUSEPUS	=	863	286C	CE OD 28 NOMOUSE	DEC	PIANOL
2800	MOUSEDIR	-	864	286F	D0 09	BNE	NOPIANO
2800	HIGH GLASSCOUN MOUSEPOS MOUSEDIR MOUSEL MOUSEH BONFLAG SONGNUM NOTENUM MB	=	865	2871	DO OC 28 AD OC 28 AD OC 28 AD OS 28 20 08 30 20 5F 2A CE 09 28 NOGLASS DO OC AD OA 28 AD 0A 28 AD 0B 2	LDA	PIANOH
2800	MUUSEH	_	866	2874	8D 0D 28	SIA	PIANUL
2800	BUNFLAG	=	867	2877 287A	20 F/ 30	JSR	PIANO
2800	SUNGNUM	=	868	28/A	AD UD 28 NUPIANU	LDA	PIANUL
2800	NUIENUM	=	869	287D	C9 UA	CMP	#10
2800 2800	OOLINITED	=		287F	AD 10 28 80 0F AD 66 03 CS 01 DO 08 AD 11 FF CE 0F 28 NP DO 09 AD 10 28 80 0F 28 20 40 2D CE 18 28 NOJOY DO 09 AD 19 28 80 18 28 20 DD 37 20 EE 28 NOCARDS CE 57 03 DO 88	BUS	NP.
2800 4C 1A	OUUNIEN	INAD	870 MAIN	2881 2884	AD 00 U3	LUA	COUNTER
2803 00	ZCA4D	JIVIP		2886 2886	09 01	CIMP	#1
2804 00	TEMPO	.BYI	0	2888	DU U8	BINE	NP occoz
2805 00	TEMP2	DVT	ŏ	288B	AU II FF	AND	65297 #79
2806 00	TEMPA	DVT	ŏ	288D	29 4F 0D 11 EE	CTA	#79 65297
2807 00	CEED	DVT	ŏ	2890	OD 11 FF	DEC	JOYL
2808 00	SVNC1	DVT	ŏ	2893	DD 00	DAIE	NOJOY
2809 00	EALLI	DVT	ŏ	2895 2895	ND 10 20	DINE	NOTO
280A 00	ENILL	DVT	ŏ	2898	AD 10 20 OD 0E 20	CTA	JOYH
280B 00	CIVECI	DVT	ŏ	289B	OD UF 20	OIA	JOYL JOYSTICK
280C 00	GLASSE GLASSE	BVT	ŏ	289E	CE 10 20 NO IOV	DEC	CARDSL
280D 00	PIANOI	BVT	ŏ	28A1	DD 00	DEC	NOCARDS
280E 00	PIANOL	BVT	ŏ	28A3	AD 10 20	LDA	CADDON
280F 00	IOVI	BVT	ŏ	28A6	AD 15 20 9D 19 20	CTA	CARDSH CARDSL
2810 00	JOYH	RVT	ŏ	28A9	20 DD 27	ICD	CARDS
2811 00	LENGTH	BVT	ŏ	28AC	20 DD 37	JON	DELAY
2812 00 00	COLOR	RVT	0.0	28AF	CE 57 02	DEC	JIFF
2814 00 00	COLOIT	BVT	0,0	28B2	D0 88	BNE	LOOP
2816 00	NUMHIT	BYT	0,0	28B4	CE 54 03	DEC	TIME
2817 00	FIRED	BYT	ŏ	28B7	20 6E 29	DEC	SCROUT
2818 00	CARDSL	BYT	ŏ	28BA	AD 54 03	LDA	TIME
2819 00	CARDSH	BYT	ŏ	28BD	FO 08	BEQ	FINISH
281A	SOURSHOWN MB COUNTER 28 TEMP TEMP2 TEMP3 TEMP4 SEED SYNC1 FALLL FALLH GLASSL GLASSH PIANOL PIANOH JOYL JOYH LENGTH COLOR COLDIF NUMHIT FIRED CARDSH MAIN	=	:	28BF	AD 58 03	LDA	BULLETS
***				2001	30 00		

28C2 F0 03 28C4 4C 3C 28 28C7 A9 00 FINISH 28C9 8D 11 FF 28CC A2 17 28CE A0 08 28D0 18 28D1 20 F0 FF 28D4 A9 BD 28D6 A0 37 28D8 20 08 34 28DB 20 2D 2A 28DE 20 6E 29 28E1 20 FC 29 28E1 20 FC 29 28E4 20 E4 FF WTKEY 28E7 C9 0D 28E9 D0 F9 28E8 4C 22 28 28EE A2 00 DELAY 28F1 D0 FD 28F3 60 ; ; add score		FINISH LOOP #0 65297 #23 #8 \$FFFO # <mess2 #="">MESS2 STROUT BULLOUT SCROUT HOUT \$FF44 #13 WTKEY START #0</mess2>			
28C2 F0 03	BEQ	FINISH	2952 C9 24 2954 90 02 2956 A9 23 2958 8D 58 03 PBUL 295B 60	CMP	#36
28C4 4C 3C 28	JMP	LOOP	2954 90 02	BCC	PBUL
28C7 A9 00 FINISH	LDA	#0	2956 A9 23	LDA	#35
28C9 8D 11 FF	SIA	65297	2958 8D 58 03 PBUL	STA	BULLETS
28CC A2 17 28CE A0 08	LDX	#23 #0	2958 60	KIS	
28D0 18	CLC	#0	; subtract bullets		
28D1 20 F0 FF	JSR	\$FFF0	, subtract bullets		
28D4 A9 BD	I DA	# <mfss2< td=""><td>295C SUBBULL 295C 8D 04 28 295F AD 58 03 2962 38 2963 ED 04 28 2966 BO 02 2968 A9 00 296A 8D 58 03 PBUL2 296D 60</td><td>=</td><td>•</td></mfss2<>	295C SUBBULL 295C 8D 04 28 295F AD 58 03 2962 38 2963 ED 04 28 2966 BO 02 2968 A9 00 296A 8D 58 03 PBUL2 296D 60	=	•
28D6 A0 37	LDY	#>MESS2	295C 8D 04 28	STA	TEMP2
28D8 20 08 34	JSR	STROUT	295F AD 58 03	LDA	BULLETS
28DB 20 2D 2A	JSR	BULLOUT	2962 38	SEC	
28DE 20 6E 29	JSR	SCROUT	2963 ED 04 28	SBC	TEMP2
28E1 20 FC 29	JSR	HOUT	2966 B0 02	BCS	PBUL2
28E4 20 E4 FF WTKEY	JSH	\$FFE4	2968 A9 00	LUA	#0
28E7 C9 0D 28E9 D0 F9	DNE	# IJ	290A 8D 38 U3 PBULZ	DIA	BULLETS
28EB 4C 22 28	IMP	START	2900 00	nio	
28EE A2 00 DELAY	IDX	#0	output scores		
28F0 CA WT	DEX		:		
28F1 D0 FD	BNE	WT	, 296E SCROUT	=	•
28F3 60	RTS		296E 8A	TXA	
;			296F 48	PHA	
; add score			2970 98	TYA	
; 00F4 ADDCCODE		•	2971 48	PHA	""(OFF)"
2014 ADDSCURE	-	-	2972 A9 92	LUA	#"{OFF}" \$FFD2
2004 10 2855 6D 52 03	ADC	SCUBE	2974 20 D2 FF 2077 AQ 05	IDA	ΦΓΓ UZ #"(\ M HT \"
28F8 8D 52 03	STA	SCORE	2979 20 D2 FF	JSR	#"{WHT}" \$FFD2
28FB AD 53 03	LDA	SCORE+1	297C A2 06	LDX	#6
28FE 69 00	ADC	#0	297E A0 00	LDY	#0
2900 8D 53 03	STA	SCORE+1	2980 18	CLC	
2903 AD 63 03	LDA	BONFLAG	2981 20 F0 FF	JSR	\$FFF0
2906 D0 21	BNE	NOBONUS	2984 AE 52 03	LDX	SCORE
2908 AD 52 03	LDA	SCORE	2987 AD 53 03	LDA	SCORE+1
2900 E0 E4	SEC	# ~E00	298A 20 13 34 208D A2 0A	100	NUMOUT #10
2900 E9 F4	STA	TEMP2	290D AZ UA 208F AN NN	LDV	#10 #0
2911 AD 53 03	IDA	SCORF+1	2991 18	CLC	# 0
2914 E9 01	SBC	#>500	2992 20 F0 FF	JSR	\$FFF0
2916 OD 04 28	ORA	TEMP2	2995 AE 54 03	LDX	TIME
2919 90 0E	BCC	NOBONUS	2998 A9 00	LDA	#0
291B AD 54 03	LDA	TIME	299A 20 13 34	JSR	NUMOUT
291E 18	CLC		299D AO 00	LDY	#0
291F 69 32	AUC	#5U	299F AD 54 U3	LUA	TIME
2921 OD 34 U3	IDA	#1	29A2 G9 19 20A4 D0 02	RNE	#20 NFI
2926 AD 63 03	STA	RONFI AG	29A6 A0 F1	IDY	#241
28F1	JMP	SCROUT	29A8 AE 56 03 NFL	LDX	COMPUTER
;			29AB D0 05	BNE	CO64
; subtract score			29AD 8C 19 FF	STY	65305
, , , , , , , , , , , , , , , , , , , ,			29B0 D0 03	BNE	NO2
292C SUBSCORE 292C 8D 03 28 292F AD 52 03 2932 38 2933 ED 03 28 2936 8D 52 03 2939 AD 53 03 2930 E9 00 293E 8D 53 03 2941 BO 08 2943 A9 00 2945 8D 52 03 2948 8D 53 03	= CTA	TEMP SCORE TEMP SCORE SCORE+1 #0 SCORE+1 NZERO #0 SCORE SCORE SCORE SCORE	2962 38 50 50 50 50 50 50 50 50 50 50 50 50 50	SIY	2328U #"(DVC)"
292C 8D 03 28 292F AD 52 03	PIA	SCORE	2900 A9 12 NU2 2007 20 D2 FF	JOR	#"{RVS}" \$FFD2
2932 38	SEC	JOUNE	29D7 20 D2 11	IDX	#18
2933 ED 03 28	SBC	TEMP	29BC AO 02	LDY	#2
2936 8D 52 03	STA	SCORE	29BE 18	CLC	=
2939 AD 53 03	LDA	SCORE+1	29BF 20 F0 FF	JSR	\$FFF0
293C E9 00	SBC	#0	29C2 AD 46 03	LDA	GOODCARD
293E 8D 53 03	STA	SCORE+1	2905 OA	ASL	
2941 B0 08 2943 A9 00	BUS	INZERU #0	2900 UA 2007 18	U C HOL	
2945 A9 00 2945 BD 52 03	STA	SCORF	2908 69 49	ADC	#73
2948 8D 53 03	STA	SCORE+1	29CA A8	TAY	
294B 4C 6E 29 NZERO	JMP	SCROUT	29CB 20 D2 FF	JSR	\$FFD2
			29CE C8	INY	-
; add bullets			29CF 98	TYA	
1			29D0 8D 04 28	STA	TEMP2
, 294E ADDBULL 294E 18 294F 6D 58 03	=	BULLETS	29D3 20 D2 FF	JSR	\$FFD2 # <mess3 #>MESS3</mess3
294E 18 294F 6D 58 03	CLC ADC	DITILIETE	29U0 A9 U9 20D9 A0 27	LDA	# <ivie553< td=""></ivie553<>
∠54F 0D 30 U3	ADC	DULLEIS	23U0 MU 3/	LUT	#>INIEGGG

29DA	20 08 34	JSR	STROUT			
29DD	AC 04 28	LDY	TEMP2	, 2A5F LOOK	_	•
29E0	C8	INY		2A5F AD 4A 03	LDA	SURPRISE
29E1	98	TYA		2A62 DO 3A	BNE	OPEN
29E2	20 D2 FF	JSR	\$FFD2	2A64 CE 4E 03	DEC	WINDOWH
29E5	C8	INY	#0c	2A67 F0 01	BEQ	CONTIN
29E6 29E8	CO 60 DO 04	CPY BNE	#96 ROT	2A69 60 GOHOME 2A6A 20 EC 2A CONTIN	RTS	MANDON
29EA	38	SEC	nui	2A6A 20 EC 2A CONTIN 2A6D 20 FB 2F	JSR JSR	Windon Rand
29EB	E9 3E	SBC	#62	2A70 29 07	AND	#7
29ED	A8	TAY	,, or	2A72 18	CLC	TT 1
29EE	98 ROT	TYA		2A73 69 07	ADC	#7
29EF	20 D2 FF	JSR	\$FFD2	2A75 8D 4C 03	STA	OCOUNT
29F2	A9 92	LDA	#"{OFF}"	2A78 A9 03	LDA	#3
29F4	20 D2 FF	JSR	\$FFD2	2A7A 8D 4B 03	STA	HCOUNT
29F7 29F8	68	PLA		2A7D EE 4A 03	INC	SURPRISE
29F9	A8 68	TAY Pla		2A80 A2 04 2A82 20 FB 2F ZR	LDX	#4
29FA	AA	TAX	•	2A85 29 03	JSR AND	RAND #3
29FB	60	RTS		2A87 C9 03	CMP	#3 #3
29FC	AD 5C 03 HOUT	LDA	HIGH	2A89 F0 F7	BEQ	ŽŘ
29FF	38	SEC		2A8B A8	TAY	
2A00	ED 52 03	SBC	SCORE	2A8C B9 E9 2A	LDA	HTAB,Y
2A03	8D 03 28	STA	TEMP	2A8F A8	TAY	
2A06	AD 5D 03	LDA	HIGH+1	2A90 8C 4F 03 0Y	STY	HORIZ
2A09 2A0C	ED 53 03 0D 03 28	SBC ORA	SCORE+1 TEMP	2A93 18 2A94 20 F0 FF	CLC	AFFFO
2A0F	BO OB	BCS	LEAVE	2A94 20 F0 FF 2A97 A9 38	JSR	\$FFF0
2A11	AO 01	LDY	#1	2A97 A9 30 2A99 A0 37	LDA LDY	#<0window #>0window
2A13	B9 52 03 TR	LDA	SCORE.Y	2A9B 20 08 34	JSR	STROUT
2A16	99 5C 03	STA	HIGH,Y	2A9E AD 4C 03 OPEN	LDA	OCOUNT
;				2AA1 F0 29	BEQ	NXT
2A19	88	DEY		2AA3 CE 4C 03	DEC	OCOUNT
2A1A	10 F7	BPL	TR	2AA6 D0 C1	BNE	GOHOME
2A1C 2A1E	A2 0E LEAVE A0 00	LDX	#14	2AA8 A2 04	LDX	#4
2A1E 2A20	AU 00 18	LDY	#0	2AAA AC 4F 03 2AAD 18	LDY	HORIZ
2A21	20 F0 FF	JSR	\$FFF0	2AAD 18 2AAE 20 F0 FF	CLC JSR	\$FFF0
2A24	AE 5C 03	LDX	HIGH	2AB1 A9 00	LDA	фггго #0
2A27	AD 5D 03	LDA	HIGH+1	2AB3 8D 59 03	STA	FLAG
2A2A	4C 13 34	JMP	NUMOUT	2AB6 A2 5A	LDX	# <goodguy< td=""></goodguy<>
				2AB8 A0 37	LDY	#>GOODGUY
; upda	te bullets			2ABA 20 FB 2F	JSR	RAND
, 2A2D	BULLOUT	_		2ABD 10 09 2ABF A9 01	BPL	GOODG
2A2D	AD 5A 03	LDA	SCREEN	2ABF A9 01 2AC1 8D 59 03	LDA STA	#1 FLAG
2A30	18	CLC	OOTILLIT	2AC4 A2 76	LDX	# <badguy< td=""></badguy<>
2A31	69 C4	ADC	#<964	2AC6 AO 37	ĹĎŶ	#>BADGUY
2A33	85 04	STA	FREE0	2AC8 8A GOODG	TXA	> Dr.D.G.O.1
2A35	AD 5B 03	LDA	SCREEN+1	2AC9 20 08 34	JSR	STROUT
2A38	69 03	ADC	#>964	2ACC CE 4B 03 NXT	DEC	HCOUNT
2A3A 2A3C	85 05 AE 58 03	STA	FREEO+1	2ACF DO 98	BNE	GOHOME
2A3F	E8	LDX INX	BULLETS	2AD1 A9 00 2AD3 8D 4A 03	LDA	#0
2A40	ÃO 00	ĽĎŶ	#0	2ADS 6D 4A 03 2AD6 A2 04	STA LDX	SURPRISE #4
2A42	A9 BC BULLOOP	LDA	#188	2AD8 AC 4F 03	ĹĎŶ	HORIZ
2A44	CA	DEX		2ADB 20 A7 35	JSR	DRAWINDOW
2A45	FO 02	BEQ	PN	2ADE AD 59 03	LDA	FLAG
2A47	10 02	BPL	PUTIT	2AE1 F0 05	BEQ	RER
2A49 2A4B	A9 20 PN	LDA	#32	2AE3 A9 0A	LDA	#10
2A4B 2A4D	91 04 PUTIT 20 30 2D	STA JSR	(FREEO),Y	2AE5 20 5C 29	JSR	SUBBULL
2A4D 2A50	AD 56 03	LDA	ADDCOLOR COMPUTER	2AE8 60 RER 2AE9 0D 17 21 HTAB	RTS	10.00.00
2A53	D0 02	BNE	PLS3	2AEC 20 FB 2F WINDON	.BYT JSR	13,23,33 RAND
2A55	A9 71	LDA	#113	2AEF 29 1F	AND	#31
2A57	91 02 PLS3	STA	(TEMPO),Y	2AF1 09 20	ORA	#32
2A59	C8	INY	•	2AF3 8D 4E 03	STA	WINDOWH
2A5A	CO 23	CPY	#35	2AF6 60	RTS	
2A5C 2A5E	D0 E4 60	BNE	BULLOOP	many the many		
ZAJE ·	00	RTS	•	; move the mouse	•	
; who's	that looking in the wind	nw		2AF7 MOUSE	_	
,	voiming in the Willia	•••		⇒ " · WOUGE	_	

2AF7	AD 5E 03	LDA	GLASSCOUNT	2B8A	85 04	STA	FREE0
2afa	C9 0B	CMP	#MB+1	2B8C	85 04 A5 05 E9 00 85 05 A2 00 20 80 2C A9 0A	LDA	FREE0+1
2AFC	F0 17	BEQ	MOVING	2B8E	E9 00	SBC	#0
2AFE	C9 0A	CMP	#MB	2B90	85 05	STA	FREE0+1
2B00	DO 12	BNE	NOMOU	2B92	A2 00	LDX	#0
2B02	A9 00	LDA	#0	2B94	20 BO 2C	JSR	PUT2
2B04	8D 5F 03	STA	MOUSEPOS	2B97	A9 0A	LDA	#10
2B07	A9 01	LDA	#1	2899	20 F4 28 AD 5E 03	JON	ADDSCORE
2B09	8D 60 03	STA	MUUSEDIR	2B90	AD 5E 03 C9 0A	LDA CMP	GLASSCOUNT
2B0C 2B0F	EE DE US	INC	GLASSCOUNT #404	2B9F	BO 03	BCS	#MB
2BUF 2B11	A9 00	CTA	# IUI	2BA1	EE 5E 03	INC	NORAISE GLASSCOUNT
2B14	60 NOMOLI	DTC	MINOSELL	2043	60 NORA	ISE RTS	GLASSCOUNT
2B15	8D 60 03 EE 5E 03 A9 65 8D 62 03 8D 62 03 NOMOU AD 5A 03 MOVING 18 69 D8 85 04	IDA	#1 MOUSEDIR GLASSCOUNT #101 MOUSEH SCREEN	2BA7	C9 84 NOTM	UG CMP	#132
2B18	18	CLC	CONTLLIA	2BA9	FO 08	BEQ	NOGO
2B19	69 D8	ADC	#<728	2BAB	C9 89	CMP	#137
2B1B	85 04	STA			90 05	BCC	GO
2B1D	AD 5B 03	LDA	SCREEN+1	2BAF	C9 8D	CMP	#141
2B20	69 02	ADC	#>728	2BB1	B0 01	BCS	GO
2B22	85 05	STA	FREE0+1	2BB3	60 NOGO	RTS CMP	
2B24	AC 5F 03	LDY	MOUSEPOS	2BB4	C9 A0 GO	CMP	#160
2B27	A9 20	LDA	#32	2BB6	FO 4C	BEQ	FLO
2B29	91 04	SIA	(FREEU),Y	2BB8	C9 A2	CMP	#162
2B2B	04 04	INY	(FDFFO) V	SRRV	BU 48	BCS CMP	FLO
2B2C 2B2E	91 U4 AD EF 02	SIA	(FREEU),Y	SBBC	C9 8D	CIVIP	#141 FLO
2B31	AD 3F U3	CLC	FREED SCREEN+1 #>728 FREE0+1 MOUSEPOS #32 (FREE0),Y	2BBC 2BBE 2BC0	90 44 AD 47 02	104	POSITION
2B32	ED EU US	ADC	MOLICEDID	2000	FO AC FO 4C C9 A2 B0 48 C9 8D 90 44 AD 47 03 38 F9 13	BCC LDA SEC SBC	PUSITION
2B35	8D 5F 03	ADC AT2	MOUSEDIR MOUSEPOS BYEMOUSE #14	2BC4	E9 13	SRC	#19
2B38	FD 29	BEO	RYFMOLISE	2BC6	AA	TAX	#13
2B3A	C9 OF	CMP	#14	2BC7	BD D2 2C	ĹĎÁ	NEWT,X
2B3C	FO 25	BEQ	#14 BYEMOUSE #0	2BCA	18	CLC	
2B3E	A2 00	LDX	#0	2BCB		ADC	INDEX
2B40	A8	TAY		2BCE	C9 05	CIVIE	#5
2B41	AD 60 03	LDA	Mousedir	2BD0	90 03	BCC	oray
2B44	10 02	BPL	RIGHT	2BD2	38	SEC	
2B46	A2 02	LDX	#2	2BD3	E9 05	SBC	#5
2B48	BD 69 2B RIGHT	LDA	MOUSHP,X	2BD5	AA UKAY	IAX	040000 V
2B4B	91 04	SIA	(FREEU),Y	2800	BD 3C 03	LUA	CARDS2,X
2B4D 2B4E	DD CA OD	INY	MOLICUD LAV	2009	29 /F	AND	#127
2B51	18 85 D8 85 04 AD 55 03 69 05 85 05 AC 55 03 A9 20 91 04 AD 55 03 18 AD 55 03 18 AD 55 03 18 AD 57 03 18 AD 57 03 18 AD 57 03 18 AD 60 03 AD 57 A2 00 A8	STA.	#0 MOUSEDIR RIGHT #2 MOUSHP.X (FREE0),Y MOUSHP.+1,X (FREE0),Y ADDCOLOR COMPUTER PS5 #113 (TEMPO),Y (TEMPO),Y #0 GLASSCOUNT 27,28,29,30	2800	90 03 38 38 69 05 AA ORAY BD 3C 03 29 7F 4A 4A 4A CD 46 03 D0 0A CE 46 03 D0 10 A9 23 20 4E 29 A9 05 BD 46 03 20 70 38 4C 75 2C A9 0A NOR 20 F4 28 A9 1C 40 3C 03	LSR	
2B53	20 30 20	JSR	ADDCOLOR	2BDD	CD 46 03	CMP	GOODCARD
2B56	AD 56 03	LDA	COMPUTER	2BE0	DO OA	BNE	RESET
2B59	D0 02	BNE	PS5	2BE2	CE 46 03	DEC	GOODCARD
2B5B	A9 71	LDA	#113	2BE5	D0 10	BNE	NOR
2B5D			(TEMPO),Y	2BE7	A9 23	LDA	#35
2B5F	88	DEY		2BE9	20 4E 29	JSR	ADDBULL
2B60	91 02	STA	(TEMPO),Y	2BEC	A9 05 RESET	T LDA	#5
2B62	60 A0 00 BYEMOUSE	RTS	ш0	ZBEE	8D 46 U3	SIA	GOODCARD FIXCARDS
2B63 2B65	A9 00 BYEMOUSE 8D 5E 03	LDA STA	#U CLASSCOUNT	2DF1	20 70 30 40 75 30	IMD	DUN
2B68	6D 3E 03	DIA	GLAGGOODIVI	2DI 4	AG NA NOR	IDΔ	#10
2B69	8D 5E 03 60 1B 1C 1D MOUSHP	RVT	27 28 29 30	2RF9	20 F4 28	JSR	ADDSCORE
:	ID TO ID MODULI		21,20,20,00	2BFC	A9 1C	LDA	#28
: hit s	omething			2BFE	9D 3C 03	LDA STA JMP CMP	CARDS2,X
				2001	4C 75 2C	JMP	DUN
2B6D	HIT	=	•	2C04	C9 66 FLO	CMP	#102
2B6D	AC 47 03	LDY	POSITION	2006	D0 08	BNE	NOTBACK
2B70	B1 04	LDA	(FREEO),Y	2008	A9 0A	LDA	#10
2B72	C9 85	CMP	#133	2COA	20 2C 29 4C 75 2C	JSR	SUBSCORE
2B74	90 31	BCC CMP	NUTWILL	2000	C9 A2 NOTB	JMP ACK CMP	DUN #162
2B76 2B78	C9 89 B0 2D	BCS	#FIOT NOTABLIC	2010	90 1A	BCC BCC	NTG
2B7A	38	SEC	NOTIVIOG	2012	C9 B4	CMP	#180
2B7B	E9 85	SBC	#133	2014	B0 16	BCS	NTG
2B7D	AA	TAX	50	2C18	C9 AB	CMP	#171
2B7E	BD FB 2C	LDA	SUB.X	2C1A	B0 08	BCS	BADG
2B81	8D 03 28	STA	TEMP	2C1C	A9 64	LDA	#100
2B84	AE OA	LDA	EDEEN	2015	20.20.20	JSR	SUBSCORE
	A5 04	LUA	FNEEU	2011	20 20 29	0011	
2B86 2B87	AC 47 03 B1 04 C9 85 C9 85 B0 2D 38 E9 85 AA BD FB 2C 8D 03 28 A5 04 38 ED 03 28	SEC	POSITION (FREED),Y #133 NOTMUG #137 NOTMUG #133 SUB,X TEMP FREEO	2C21	20 2C 29 4C 75 2C A9 00 BADG	JMP	DUN #0

2026	8D 59 03	STA	FLAG	2008	91 04	STA	(FREEO),Y
2C29	A9 19	STA LDA JSR CMP BCC CMP	#25	2CC8 2CCA 2CCB 2CCC 2CCF 2CD1 2CD2 2CDB 2CDF	E8	INX	(1.1220),1
2C2B	20 F4 28	JSR	#25 Addscore #27 NMH	2CCB	C8	INY	
2C2E	C9 1B NTG	CMP	#27	2CCC	BD DB 2C 91 04	LDA	TABLE,X
2030	90 26	BCC	NMH	2CCF		STA	(FREEO),Y
2C32 2C34	C9 1F B0 22	BCS	#31 NMH MOUSEDIR #255	2001	60 00 00 00 NEWT 89 8A 8B TABLE 8D 8E 8F	rts .byt	000111000
2C36	AD 60 03	LDA	MOLISEDID	2002	SO SV SE TVEIE	.DT I	0,0,0,1,1,1,2,2,2
2C39	49 FF	EOR	#255	20DE	8D 8F 8F	.BYT .BYT	137,138,139,140 141,142,143,144,14
2C3B	18	CLC	11 200	LODI	00 02 01	.011	5,146,147,148,149,
2C3C	69 01	ADC	#1				150
2C3E	8D 60 03	STA	MOUSEDIR MOUSEH	2CE9	97 98 99	.BYT	151,152,153,154,15
2C41	AD 62 03	LDA	MOUSEH				5,156,157,158,159,
2044	38	SEC	#00	0050	00 00 00	D) CT	161
2040	20 02	SBC	#2U NOC	2613	66 66 66	.BYT	102,102,102,102,32, 32,32,32
2047	8D 62 U3	STA	MOLISEH	2CFR	00 01 28 SUR	RVT	0.1.40.41
2C3E 2C41 2C44 2C45 2C47 2C49 2C4C	A9 65 NOG	LDA	#101	2CFF	AF 16 28 FIX	LDX	NUMHIT
2C4E 2C4F 2C52 2C55 2C58	38	SEC		2D02	FO 23	BEQ	FG
2C4F	ED 62 03	SBC	MOUSEH	2D04	CA	DEX	
2C52	20 F4 28	JSR	ADDSCORE	2D05	BD C3 3B CLP	LDA	STACK1,X
2C55	4C 75 2C	JMP	DUN	2D08	85 04	STA	FREE0
2058 205A	C9 BD NIMH	CMP	#182	2DUA	BD D7 3B	LUA	STACK2,X
205A 205C	VO UU	I DA	#0	2000	00 00 00 00	IDV	FREEO+1 STACK3,X
2055	8D 65 03	STA	NOTENLIM	2D01	BD FF 3B	IDA	STACK4,X
2061	A9 01	LDA	#1	2D15	91 04	STA	(FREEO).Y
2061 2063 2066 2069	8D 66 03	STA	COUNTER	2D17	20 30 2D	JSR	ADDCOLOR
2066	EE 64 03	INC	SONGNUM	2D1A	BD 13 3C	LDA	STACK5,X
2069	AD 64 03	LDA	SONGNUM	2D1D	91 02	STA	(TEMPO),Y
206C	C9 03	CMP	#3	2D1F	CA 10 FO	DEX	OLD.
206E 2070	90 00 AD 00	BCC	DON #0	2020	10 E3	BPL	CLP #0
2072	8D 64 03	STA	SONGNUM	2022	8D 16 28	STA	NUMHIT
2C75	AE 16 28 DUN	LDX	NUMHIT	2027	AD 11 FF FG	IDA	65297
2C78	EE 16 28	INC	NUMHIT	2D2A	29 1F	AND	#31
2C7B	A5 04	LDA	#20 NOG MOUSEH #101 MOUSEH #101 MOUSEH ADDSCORE DUN #182 DUN #182 DUN #0 NOTENUM #1 COUNTER SONGNUM SONGNUM SONGNUM #3 DUN #0 SONGNUM TREEO STACK1,X FREEO+1 STACK2,X POSITION STACK3,X (FREEO),Y #27 DT #31 DT #32 STACK4,X STACK	2D2C	66 66 66 00 01 28 SUB AE 16 28 FIX FO 23 CA BD C3 3B CLP 85 04 BD D7 3B 85 05 BC EB 3B BD F 3B B1 F 3B B1 O4 20 30 2D B1 33 C B1 02 CA 10 E3 A9 00 8D 16 28 AD 11 FF FG 29 1F 8D 11 FF GG 8D 11 FF 60	STA RTS LDA	65297
2C7D	9D C3 3B	STA	STACK1,X	2D2F	60	RTS	•
2080	A5 05	LDA	FREEO+1	2D30	A5 04 ADDCOLOR	LDA	FREE0
2C82 2C85	9D D7 3B	SIA	STACK2,X	2032	18 ep 44 00	CLC	OOL DIE
2C88	40 47 03 40 FR 3R	CTA	STACKS A	2033	95 02	STA	COLDIF TEMPO
2C8B	B1 04	IDA	(FRFFO) Y	2038	A5 05	IDA	FREEO+1
2C8D	C9 1B	CMP	#27	2D3A	6D 15 28	ADC	COLDIF+1
2C8F	90 06	BCC	DT	2D3D	85 03	STA	TEMP0+1
2C91	C9 1F	CMP	#31	2D3F	60	RTS	
2093	B0 02	BCS	DT	;			
2C95 2C97	A9 20	LDA	#32 OTAOKA V	; joysti	ck routine		
2097 209A	30 30 3D	OIA	ADDCOLOD	2040	IOVETICK	_	*
2C9D	18	LDA	(TEMPO).Y	2D40	20 4C 2E	JSR	GETJOY
2C9F	9D 13 3C	STA	STACK5,X	2D43	4A	LSR	GE.00.
2CA2	AD 56 03	LDA	COMPUTER	2D44	B0 0D	BCS	NOTUP
2CA5	DO 02	BNE	PS4	2D46	AE 11 28	LDX	LENGTH
2CA7 2CA9	A9 71	LDA	#113	2D49	E0 10	CPX	#16
2CA9 2CAB	91 02 PS4	SIA	(IEMPU),Y	2048	FU U6	BEQ	NOTUP
2CAD	91 04	STA	# 132 (EREEN) V	2040	20 10 2E	INU	LENGTH DGUN
2CAF	60	RTS	(1111110),1	2D53	AA NOTUP	LSR	DGUN
2CB0	AC 47 03 PUT2	LDY	POSITION	2D54	BO OD	BCS	NOTDOWN
2CB3	BD DB 2C PUT3	LDA	TABLE,X	2D56	AE 11 28	LDX	LENGTH
2CB6	91 04	STA	(FREEO),Y	2D59	E0 02	CPX	#2
2CB8	91 04 60 AC 47 03 PUT2 BD DB 2C PUT3 91 04 C8 BD DB 2C 91 04 E8 98	INY		2D5B	FU 06	BEQ	NOTDOWN
2CB9	BD DB 2C	IIVX	TARI E Y	2DE0	UE 11 28 20 18 25	DEC	LENGTH DGUN
2CRD	91 04	STA	(FREEO) Y	2063	AA MOTDOWN	JON JSR	DOOM.
2CBF	E8	INX	(2D64	BO 14	BCS	NOTLEFT
2000		TYA		2D66	48	PHA	
2CBA 2CBD 2CBF 2CC0 2CC1 2CC2	18	CLC		2D67	AD 47 03	LDA	POSITION
2002	69 27	ADC	#39	2D6A	FO OD	BEQ	NOG1
2CC4 2CC5	A8 BD DB 2C	tay Lda	TARI E Y	2D8E	8D 11 FF 60 A5 04 ADDCOLOR 18 6D 14 28 85 02 A5 05 6D 15 28 85 03 60 ck routine JOYSTICK 20 4C 2E 4A B0 0D AE 11 28 E0 10 F0 06 EE 11 28 E0 18 2E 4A NOTUP B0 0D AE 11 28 E0 02 F0 06 CE 11 28 E0 18 2E 4A NOTUP B0 0D AC 11 28 E0 02 F0 06 CE 11 28 E0 10 E1 12 E1 12 E2 01 E3 2E E4 14 E4 000 E5 000	LDX	#0 PUT
2000	22 20 20	LDA	INULLIA	200E	בט טט בט	JON	FUI

2D71 CE 47 03	DEC	POSITION	2F03	RD 10 2F	IDΔ	GUNY
2D74 A2 04	IDX	#4	2F06	91 04	STA	(FRFFO) Y
2D76 20 DB 2D	JSR	Put	2E08	E8 .	INX	(111220),1
2D79 68 NOG1	PLA		2E09	C8 BD 10 2E 91 04 60 AO AO AO GUN	INY	
2D7A 4A NOTLEFT	LSR		2E0A	BD 10 2E	LDA	GUN.X
2D7B B0 16	BCS	NOTRIGHT	2EOD	91 04	STA	(FREEO),Y
2D7D 48	PHA		2E0F	60	RTS	,
2D7E AD 47 03	LDA	POSITION	2E10	ao ao ao gun	.BYT	160,160,160,160,12
2D81 C9 1F	CMP	#31				8,129,130,131
2D83 F0 0D	BEQ	NOG2	2E18	48 DGUN	PHA	
2D85 A2 00	LDX	#0	2E19	A9 FF	LDA	#255
2D87 20 DB 2D	JSR	PUT	2E1B	A0 FF	LDY	#255
2D8A EE 47 03	INC	POSITION	2E1D	99 FF 23 DGLOOP1	STA	9215,Y
2D8D A2 04	LDX	#4	2E20	08	INY	
2D8F 20 DB 2D 2D92 68 NOG2	JOH	PUI	2E21	CU 10	CPY	#10
2D93 4A NOTRIGHT	LCD		2523	CC 11 00	CDV	TUNE
2D94 B0 3F	ECC.	NOTEIDE	2520	DO E2	DNE	DCLOOD1
2D94 BU 3F 2D96 AD 17 28	I DA	FIRED	2520	NO 06	LDA	#150
2D99 D0 34	RNE	FORGT	2E2A	UU EE	RNE	# 130 DCI 00D1
2D9B AD 58 03	IDA	RULLETS	2F2F	20 SE 2E HOME	ISB	CHACE
2D9E F0 2F	REO	FORGT	2F31	68	PLA	GUNGE
2DA0 A9 01	LDA	#1	2F32	60	RTS	
2DA2 20 5C 29	JSR	SUBBULL	2F33	FIRESOLIND	=	•
2DA5 20 33 2E	JSR	FIRESOUND	2E33	AD 56 03	LDA	COMPUTER
2DA8 AD 5A 03	LDA	SCREEN	2E36	D0 09	BNE	CM64
2DAB 18	CLC		2E38	AD 11 FF PLUS4	LDA	65297
2DAC 69 57	ADC	#87	2E3B	09 40	ORA	#64
2DAE 85 04	STA	FREE0	2E3D	8D 11 FF	STA	65297
2DB0 AD 5B 03	LDA	SCREEN+1	2E40	60	RTS	
2DB3 69 00	ADC	#0	2E41	A9 80 CM64	LDA	#128
2DB5 85 05	STA	FREE0+1	2E43	8D 04 D4	STA	54276
2DB7 AE 11 28	LDX	LENGTH	2E46	A9 81	LDA	#129
2DBA F0 10	BEQ	NADD	2E48	8D 04 D4	STA	54276
2DBC A5 04 ADDLOOP 2DBE 18	LDA	FREED	2E4B	60	RTS	
2DDE 10	OLU					
2DBF 69 28	ADC	#40	; ; get j	oystick value		
2DBF 69 28 2DC1 85 04	ADC STA	#40 FREE0	; get jo	oystick value		•
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00	ADC STA LDA	#40 FREE0 FREE0+1	; get jo ; 2E4C	oystick value GETJOY	=	* COMPLITED
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00	ADC STA LDA ADC STA	#40 FREE0 FREE0+1 #0	; get jo ; 2E4C 2E4C 2E4C	oystick value GETJOY AD 56 03	= LDA BEO	COMPUTER
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05	ADC STA LDA ADC STA DEX	#40 FREE0 FREE0+1 #0 FREE0+1	get jo 2E4C 2E4C 2E4F 2E4F	oystick value GETJOY AD 56 03 FO 04 AD 00 DC	= LDA BEQ	COMPUTER
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA	ADC STA LDA ADC STA DEX BNF	#40 FREE0 FREE0+1 #0 FREE0+1	; get jo ; 2E4C 2E4C 2E4F 2E51 2F54	oystick value GETJOY AD 56 03 F0 04 AD 00 DC	= LDA BEQ LDA RTS	COMPUTER LONG2 \$DC00
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD	ADC STA LDA ADC STA DEX BNE JSR	#40 FREE0 FREE0+1 #0 FREE0+1 ADDLOOP	; get jo ; 2E4C 2E4C 2E4F 2E51 2E54 2E55	Oystick value GETJOY AD 56 03 FO 04 AD 00 DC 60 AP FD LONG2	LDA BEQ LDA RTS LDA	COMPUTER LONG2 \$DC00
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT	ADC STA LDA ADC STA DEX BNE JSR LDA	#40 FREE0 +1 #0 FREE0+1 ADDLOOP HIT #1	; get ju ; 2E4C 2E4C 2E4F 2E51 2E54 2E55 2E57	Oystick value GETJOY AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 80 8F	LDA BEQ LDA RTS LDA STA	COMPUTER LONG2 \$DC00 #\$FD \$FF08
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28	ADC STA LDA ADC STA DEX BNE JSR LDA STA	#40 FREE0 FREE0+1 #0 FREE0+1 ADDLOOP HIT #1 FIRED	2E4C 2E4C 2E4F 2E51 2E54 2E55 2E57 2E5A	Oystick value GETJOY AD 56 03 FF 04 AD 00 DC 60 A9 FD LONG2 80 08 FF EA	LDA BEQ LDA RTS LDA STA NOP	COMPUTER LONG2 \$DC00 #\$FD \$FF08
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60	ADC STA LDA ADC STA DEX BNE JSR LDA STA RTS	#40 FREE0 FREE0+1 #0 FREE0+1 ADDLOOP HIT #1 FIRED	2E4C 2E4C 2E4F 2E51 2E54 2E55 2E57 2E5A 2E5B	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 80 08 FF EA	LDA BEQ LDA RTS LDA STA NOP NOP	COMPUTER LONG2 \$DC00 #\$FD \$FF08
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE	ADC STA LDA ADC STA DEX BNE JSR LDA STA RTS LDA	#40 FREE0 +1 #0 FREE0+1 ADDLOOP HIT #1 FIRED	get ju ; 2E4C 2E4C 2E4F 2E51 2E54 2E55 2E57 2E5A 2E5B 2E5C	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 8D 08 FF EA AD 08 FF	LDA BEQ LDA RTS LDA STA NOP NOP LDA	COMPUTER LONG2 \$DC00 #\$FD \$FF08
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28	ADC STA ADC STA DEX BNE JSR LDA STA LDA STA	#40 FREE0 +1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED	get ju 2E4C 2E4C 2E4F 2E51 2E54 2E55 2E57 2E5A 2E5B 2E5C 2E5F	Dystick value GETJOY AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 80 08 FF EA AD 08 FF EA BD 03 28	= LDA BEQ LDA RTS LDA STA NOP NOP LDA STA	COMPUTER LONG2 \$DC00 #\$FD \$FF08 SFF08 TEMP
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DDA 60	ADC STA ADC STA DEX BNE JSR LDA STA RTS LDA RTS	#40 FREEO +1 #0 FREEO+1 ADDLOOP HIT #1 FIRED #0	get ju 2E4C 2E4C 2E4F 2E51 2E54 2E55 2E57 2E5A 2E5B 2E5C 2E5F 2E62	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 BD 08 FF EA AD 08 FF EA AD 08 FF EA AD 08 FF EA AD 08 FF	= LDA BEQ LDA RTS LDA STA NOP NOP LDA STA AND	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 \$FF08 #EMP #128
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DDA 60 2DDB AD 5A 03 PUT	ADC STA ADC STA DEX BNE JSR LDA STA RTS LDA	#40 FREE0 FREE0+1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED SCREEN	2E4C 2E4C 2E4F 2E51 2E54 2E55 2E57 2E5A 2E5B 2E5C 2E5F 2E62 2E64	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 80 08 FF EA AD 08 FF BD 03 28 29 80 08	LDA BEQ LDA RTS LDA STA NOP LDA STA AND PHP	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 TEMP #128
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DDA 60 2DDE 18 2DDE 18	ADC STA ADC STA DEX BNE JSR LDA STA RTS LDA STA CLC	#40 FREE0 FREE0+1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED SCREEN	get ju ; ; 2E4C 2E4F 2E51 2E54 2E55 2E57 2E5A 2E5B 2E5C 2E5C 2E62 2E64 2E66	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 8D 08 FF EA AD 08 FF 8D 03 28 29 80 08 AD 03 28	LDA BEQ LDA RTS LDA STA NOP LDA STA AND PHP LDA	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 TEMP #128 TEMP
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DDA 60 2DDB AD 5A 03 PUT 2DDF 69 FF	ADC STA ADC STA DEX BNE JSR LDA STA RTS LDA STA RTS LDA	#40 FREEO +1 #0 FREEO+1 ADDLOOP HIT #1 FIRED #0 FREED #0 FIRED SCREEN #<767	get ju 2E4C 2E4C 2E4F 2E51 2E54 2E55 2E57 2E5A 2E5B 2E5C 2E5C 2E66 2E66 2E66 2E68	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 BD 08 FF EA EA AD 08 FF 80 03 28 29 80 08 28 29 80	ELDA BEQ LDA RTSA STA NOP LDA STA PHP LDA PLP	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 TEMP #128 TEMP
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DDA 60 2DDB AD 5A 03 PUT 2DDE 18 2DDF 69 FF 2DE1 85 04	ADC STA ADC STA DENE JSR LDA STA STA CLC ADC STA	#40 FREE0 +1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED #0 FIRED #0 SCREEN #<767 FREE0	get ju 2E4C 2E4C 2E4F 2E51 2E54 2E55 2E57 2E58 2E5C 2E5F 2E62 2E62 2E68 2E68 2E68	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 8D 08 FF EA AD 08 FF BD 03 28 29 80 08 AD 03 28 28 20 02	LDA BEQA LDA STA NOP NOA STA AND PHP BAND	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 TEMP #128 TEMP
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DD8 AD 5A 03 PUT 2DDE 18 2DDF 69 FF 2DDF 85 04 2DE3 AD 5B 03	ADC STA ADA ADTA ADTA BNE JSDA STA LDA STA ADC ADC ADC ADC ADC	#40 FREE0 +1 #0 FREE0+1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED \$CREEN #<767 FREE0 \$CREEN+1	get ju 2E4C 2E4C 2E4F 2E55 2E55 2E57 2E5A 2E5B 2E5C 2E6C	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 8D 08 FF EA AD 03 28 BD 09 28 BD 09 28	LDA BEQA LDTS LDA RTDS NOP NOA STA NOP LDA AND PHP AND STA AND PHP AND STA AND PHP BNE AND STA AND PHP BNE AND STA AND PHP BNE AND STA	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DDA 60 2DD8 AD 5A 03 PUT 2DDF 69 FF 2DE1 85 04 2DE6 69 02	ADTA ADTA ADTA ADTA ADTA BNE JSRA LDA STA LDA STA LDA CLC ADTA ADTA	#40 FREE0 +1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED \$CREEN #<767 FREE0 SCREEN+1 #>767	get ju 2E4C 2E4C 2E4C 2E51 2E54 2E55 2E57 2E58 2E5C 2E66 2E66 2E68 2E68 2E68 2E68	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 8D 08 FF EA AD 08 FF 8D 03 28 29 80 08 AD 03 28 29 EF 60 NOJOY2	= LDA BEQA BEQA RTS LDA STA STA ANDP LDA PLP BAND RTS ANDE	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DDA 60 2DDB AD 5A 03 PUT 2DE1 8 2DDF 69 FF 2DE1 85 04 2DE6 69 02 2DE8 85 05 2DE8 85 05 2DCA 60 7 03	ADC STA ADAC STA ADAC BNR LDA STA STA STA ADAC ADC ADC STA ADC ADC STA ADAC STA ADAC STA ADAC STA ADAC STA ADAC STA ADAC STA ADAC	#40 FREE0 +1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED SCREEN #<767 FREE0 #>767 FREE0+1	get ju 2E4C 2E4C 2E54 2E51 2E54 2E55 2E57 2E58 2E56 2E62 2E68 2E68 2E68 2E68 2E68 2E68 2E6	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 BD 08 FF EA AD 08 FF EA BD 03 28 29 80 08 AD 03 28 29 80 00 00 00 00 00 00 00 00 00 00 00 00 0	EDA BEQ LDA RTS LDA STA NOP NODA STA AND PHOP BNED RTS AND PHOP BNED RTS AND CO	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239 SCREEN
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DD8 AD 5A 03 PUT 2DDE 18 2DDF 69 FF 2DE1 85 04 2DE3 AD 5B 03 2DE6 69 02 2DE8 85 05 2DEA AC 47 03 2DED 8D 10 25	STA ADC STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA ADC STA ADC STA ADC STA LDA ADC LDA	#40 FREE0 +1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED #0 FIRED SCREEN #<767 FREE0 SCREEN+1 #>767 FREE0+1 POSITION GINLY	get ju 2E4C 2E4F 2E51 2E54 2E55 2E57 2E58 2E56 2E62 2E68 2E68 2E69 2E68 2E60 2E66 2E66 2E67 2E67 2E67	AD 56 03 FD 04 AD 00 DC 60 AP FD LONG2 BD 08 FF EA AD 08 FF EA AD 08 FF EA AD 08 28 29 80 AD 03 28 29 80 CO NOJOY2 AD 5A 03 GUAGE 18	= ABEQ BEQA RTSA STA NOP LDTA AND PHDA PHDA RTSA CACC	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239 SCREEN
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DDA 60 2DDB AD 5A 03 PUT 2DDE 18 2DDF 69 FF 2DE1 85 04 2DE3 AD 5B 03 2DE6 69 02 2DE8 85 05 2DEA AC 47 03 2DED BD 10 2E 2DF0 91 04	STA ADC STA LDA STA LDA STA LDA STA LDA STA STA LDA ST	#40 FREEO +1 #0 FREEO+1 ADDLOOP HIT #1 FIRED #0 FIRED \$CREEN #<767 FREEO +1 POSITION GUN,X (FREFO) Y	2E4C 2E4C 2E4F 2E51 2E55 2E57 2E58 2E5C 2E5F 2E64 2E65 2E68 2E69 2E68 2E60 2E68 2E60 2E68 2E71 2E72	AD 56 03 FD 04 AD 00 DC 60 AS FD LONG2 8D 08 FF EA AD 03 28 BD 04 28 BD 05	= DAG LDAG RTSA LDAG RTSA NOP LDA STA DPL LDA RTSA ANP LDA RTSA CLC ASTA	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239 SCREEN #119 TEMP0
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DDA 60 2DDB AD 5A 03 PUT 2DDE 18 2DDF 69 FF 2DE1 85 04 2DE8 85 05 2DE8 85 05 2DE8 85 05 2DEA AC 47 03 2DED BD 10 2E 2DF0 91 04 2DD2 18	STA ADC STA LDC STA LD	#40 FREE0 +1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED SCREEN #<767 FREE0 +1 #>767 FREE0+1 POSITION GUN,X (FREE0),Y	get ju 2E4C 2E4C 2E54F 2E51 2E55 2E57 2E5A 2E56 2E66 2E66 2E68 2E68 2E68 2E60 2E68 2E60 2E61 2E71 2E72 2E74	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 BD 08 FF EA AD 08 FF EA AD 08 FF EA AD 03 28 29 80 08 BD 03 28 29 80 08 BD 03 28 29 EF 60 NOJOY2 AD 5A 03 GUAGE 18 69 77 85 02 AD 5B 03	A DECIDIO DE LOS DELOS DE LOS DELOS DE LOS DELOS DE LOS DELOS	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239 SCREEN #119 TEMP0 SCREEN+1
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DDA 60 2DDB AD 5A 03 PUT 2DB1 18 2DDF 69 FF 2DE1 85 04 2DE3 AD 5B 03 2DE6 69 02 2DE8 85 05 2DEA AC 47 03 2DF0 91 04 2DF2 E8 2DF0 91 04 2DF2 E8 2DF3 98	STA ADC STA LDA STA LD	#40 FREE0 +1 #0 FREE0 +1 #0 FREE0 +1 ADDLOOP HIT #1 FIRED #0 FIRED \$CREEN # <767 FREE0 FREE0 +1 # >767 FRE	2E4C 2E4C 2E4F 2E51 2E55 2E57 2E58 2E58 2E56 2E62 2E64 2E68 2E68 2E69 2E68 2E60 2E6E 2E72 2E74 2E72	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 BD 08 FF EA AD 08 FF EA AD 08 FF EA AD 03 28 29 80 08 AD 03 28 29 80 08 AD 03 GUAGE 18 69 77 85 02 AD 5A 03 GUAGE 19 69 00	= DAG LDASTA PHOP LDA STAD PHOP LDA STAD PHOP LDA STAD CADC STA ADAC LDC STA	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 \$FF08 TEMP H128 TEMP NOJOY2 #239 SCREEN #119 TEMPO SCREEN+1 #0
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DD8 AD 5A 03 PUT 2DDB AD 5A 03 PUT 2DDE 18 2DDF 69 FF 2DE1 85 04 2DE3 AD 5B 03 2DE6 69 02 2DE8 85 05 2DEA AC 47 03 2DF0 BD 10 2E 2DF0 91 04 2DF2 E8 2DF3 98 2DF3 98 2DF4 98	STA A CLC STA A	#40 FREE0 +1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED	2E4C 2E4F 2E51 2E55 2E57 2E58 2E56 2E56 2E56 2E68 2E68 2E68 2E68 2E68 2E68 2E68 2E6	AD 56 03 FD 04 AD 00 DC 60 AP FD LONG2 BD 08 FF EA AD 08 FF EA AD 08 FF EA AD 08 28 29 80 08 AD 03 28 29 80 08 AD 03 28 29 EF 60 NOJOY2 AD 5A 03 GUAGE 18 69 77 85 02 AD 5B 03 69 00	= DAQ BEQ LDA RTSA NOP LDA STAD PHP BNDS LDA RTSA LDA STAD PHE ANDS LDA RTSA LDA RTSA LDA RTSA LDA RTSA ANDP LDA ANDP LDA RTSA ANDP LDA RTSA ANDP LDA AND ANDP LDA ANDP LDA ANDP LDA ANDP LDA ANDP LDA AND AND AND AND AND AND AND AND AND A	COMPUTER LONG2 \$DC00 #\$FD \$FF08 FF08 TEMP #128 TEMP NOJOY2 #239 SCREEN #119 TEMPO SCREEN +1 #0 TEMPO+1
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DDA 60 2DDB AD 5A 03 PUT 2DDE 18 2DDF 69 FF 2DE1 85 04 2DE3 AD 5B 03 2DE6 69 02 2DE8 85 05 2DEA AC 47 03 2DED BD 10 2E 2DF0 91 04 2DF2 E8 2DF3 98 2DF4 18 2DF5 69 28	STA ADC STA LDA STA LD	#40 FREE0 FREE0+1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FREE0 SCREEN #<767 FREE0 SCREEN+1 #>767 FREE0+1 POSITION GUN,X (FREE0),Y	get ju 2E4C 2E4F 2E51 2E54F 2E55 2E57 2E58 2E56 2E64 2E66 2E68 2E68 2E68 2E68 2E69 2E68 2E71 2E72 2E74 2E72 2E74 2E76 2E79 2E779 2E770	AD 56 03 FD 04 AD 00 DC 60 AS FD LONG2 BD 08 FF EA AD 03 28 29 80 AD 03 28 29 80 AD 03 28 29 FF 60 NOJOY2 AD 5A 03 GUAGE 18 69 77 85 02 85 03 85 03 86 00 85 03 86 00 85 03	= DAQ BLDA STAA NOP LIDA STAA NOP LIDA STAA PLDA PLPE BANG SLDC ADC ADC SLDC SLDC SLDC SLDC SLDC SLDC SLDC SL	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239 SCREEN #119 TEMPO SCREEN+1 #0 TEMPO+1
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DDA 60 2DDB AD 5A 03 PUT 2DD1 18 2DDF 69 FF 2DE1 85 04 2DE6 69 02 2DE8 85 05 2DEA AC 47 03 2DEB 85 05 2DEA AC 47 03 2DED BD 10 2E 2DF0 91 04 2DF2 E8 2DF3 98 2DF4 18 2DF5 99 28 2DF4 18 2DF5 69 28 2DF7 A8	STA A	#40 FREE0 FREE0+1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED SCREEN #<767 FREE0+1 #>767 FREE0+1 POSITION GUN,X (FREE0),Y	2E4C 2E4F 2E51 2E55 2E57 2E58 2E56 2E68 2E68 2E68 2E68 2E68 2E67 2E74 2E78 2E78 2E77 2E77 2E77 2E77 2E77 2E77	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 BD 08 FF EA AD 08 FF EA BD 03 28 29 80 08 AD 03 28 29 80 08 AD 03 02 EB BD 03 02 EB BD 03 02 EB BD 03 02 EB BD 03 03 EB	= DAG AND BEDASTA NOP LOA STAD PHPA AND CAD CATA A STAD CAD CAD CAD CAD CAD CAD CAD CAD CAD C	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239 SCREEN #119 TEMP0 SCREEN+1 #0 TEMP0+1 #0
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DDA 60 2DDB AD 5A 03 PUT 2DDE 18 2DDF 69 FF 2DE1 85 04 2DE3 AD 5B 03 2DE6 69 02 2DE8 85 05 2DEA AC 47 03 2DE0 BD 10 2E 2DF0 91 04 2DF2 E8 2DF4 18 2DF5 69 28 2DF7 A8 2DF8 BD 10 2E	ASTA A CONTRACTOR OF THE CONTRACTOR OF T	#40 FREE0 +1 #0 FREE0 +1 #0 FREE0 +1 ADDLOOP HIT #1 FIRED #0 FIRED \$CREEN #<767 FREE0 \$CREEN+1 #>767 FREE0 \$CREEN+1 POSITION GUIN,X (FREE0),Y	2E4C 2E4C 2E4F 2E51 2E55 2E57 2E58 2E58 2E58 2E58 2E62 2E68 2E68 2E68 2E68 2E68 2E68 2E6	AD 56 03 FO 04 AD 00 DC AB FD LONG2 BD 08 FF EA AD 08 FF EA	= DAG LDASTA PHOA STAD STAD STAD PHOA STAD PHOA RTDA CLCC ASTA ADAC STA LDASTA	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239 SCREEN #119 TEMPO SCREEN+1 #0 TEMPO+1 #0 #0 #32
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DDA 60 2DDB AD 5A 03 PUT 2DDE 18 2DDF 69 FF 2DE1 85 04 2DE3 AD 5B 03 2DE6 69 02 2DE8 85 05 2DEA AC 47 03 2DED BD 10 2E 2DF3 98 2DF4 91 04 2DF5 69 28 2DF7 A8 2DF5 69 28 2DF7 A8 2DF7 A8 2DF7 A8 2DF8 BD 10 2E 2DF8 91 04	ASTA ACCEPTAGE STATES ACCEPTAGE ACCEPTAGE STATES ACCEPTAGE ACCE	#40 FREE0 +1 #0 FREE0 +1 #0 FREE0 +1 ADDLOOP HIT #1 FIRED #0 FIRED SCREEN #<767 FREE0 SCREEN+1 #>767 FREE0 H>767 FREE0 SCREEN,y7 #40 GUN,X (FREE0),Y	2E4C 2E4F 2E51 2E55 2E57 2E58 2E56 2E56 2E66 2E66 2E68 2E68 2E68 2E68 2E68 2E6	AD 56 03 FD 04 AD 00 DC 60 A9 FD LONG2 80 08 FF EA AD 08 FF 80 03 28 29 80 08 AD 03 28 29 80 00 08 AD 03 28 28 DD 02 29 EF 60 07 85 02 AD 5A 03 GUAGE 18 69 77 85 02 AD 5B 03 69 00 A2 00 A3 00 A4 00	= DAG ASTA PLODA STAD PLODA STAD PLODA STAD PLODA STAD PLODA STAD STAD STAD STAD STAD STAD STAD ST	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239 SCREEN #119 TEMP0 SCREEN+1 #0 #0 #0 #0 #32 LENGTH
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DDA 60 2DDB AD 5A 03 PUT 2DD1 85 04 2DDF 69 FF 2DE1 85 04 2DE8 85 05 2DE8 85 05 2DE8 85 05 2DE8 85 05 2DE9 91 04 2DE9 91 04 2DE9 81 04	ASTA A STA A	#40 FREE0 +1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED SCREEN #<767 FREE0 #<767 FREE0+1 #>767 FREE0+1 #>767 FREE0+1 #>767 FREE0+1 #>767 FREE0),Y #40 GUN,X (FREE0),Y	2E4C 2E4F 2E51 2E55 2E57 2E58 2E56 2E68 2E69 2E71 2E72 2E74 2E76 2E79 2E78 2E78 2E79 2E78 2E88 2E88 2E89 2E79 2E78 2E78 2E78 2E78 2E78 2E88 2E88 2E88	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 BD 08 FF EA AD 08 FF EA AD 08 FF EA AD 03 28 29 80 08 BD 03 28 29 80 08 BD 03 28 29 EF 60 NOJOY2 AD 5A 03 GUAGE 18 69 77 85 02 AD 5B 03 69 00 AS 03 AD 03 AD 04 BD 03 BD 03 BD 03 BD 03 BD 04 BD 04 BD 05 BD 05 BD 06 BD 07 BD 06 BD 07	= DAG ABO BE LOTA STORE LOTA STOR	COMPUTER LONG2 \$DCOO #\$FD \$FF08 \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239 SCREEN #119 TEMPO SCREEN+1 #0 TEMPO+1 #0 #0 #32 LENGTH NOTG
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DDA 60 2DDB AD 5A 03 PUT 2DD1 18 2DDF 69 FF 2DC1 18 50 44 2DE3 AD 5B 03 2DE6 69 02 2DE8 85 05 2DEA AC 47 03 2DED 8D 10 2E 2DF0 91 04 2DF2 E8 2DF4 18 2DF5 69 28 2DF4 18 2DF5 69 28 2DF4 18 2DF5 69 28 2DF7 A8 2DF8 BD 10 2E 2DF9 BB 2DF9 E8 2DFF 98	STA A	#40 FREEO +1 #0 FREEO +1 #0 FREEO +1 ADDLOOP HIT #1 FIRED #0 FIRED SCREEN #<767 FREEO \$CREEN +1 #>767 FREEO +1 POSITION GUN,X (FREEO),Y #40 GUN,X (FREEO),Y	2E4C 2E4C 2E4F 2E51 2E55 2E57 2E58 2E58 2E58 2E62 2E64 2E68 2E69 2E68 2E60 2E6E 2E72 2E74 2E72 2E74 2E79 2E78 2E79 2E78 2E79 2E78 2E79 2E78 2E79 2E78 2E78	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 BD 08 FF EA AD 08 FF EA AD 08 FF EA AD 03 28 29 80 08 AD 03 28 29 80 OB AD 03 GUAGE 18 69 77 85 02 AD 5A 03 GUAGE 18 69 77 85 02 AD 5B 03 69 00 AD 03 AD 03 AD 03 AD 03 AD 04 AD 04 AD 05 AD	= DAG AND	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239 SCREEN #119 TEMPO SCREEN+1 #0 TEMPO+1 #0 #0 #32 LENGTH NOTG #31
2DBF 69 28 2DC1 85 04 2DC3 A5 05 2DC5 69 00 2DC7 85 05 2DC9 CA 2DCA D0 F0 2DCC 20 6D 2B NADD 2DCF A9 01 FORGT 2DD1 8D 17 28 2DD4 60 2DD5 A9 00 NOTFIRE 2DD7 8D 17 28 2DDA 60 2DDB AD 5A 03 PUT 2DDE 18 2DDF 69 FF 2DE1 85 04 2DE3 AD 5B 03 2DE6 69 02 2DE8 85 05 2DEA AC 47 03 2DEB 85 05 2DEA AC 47 03 2DEB 85 05 2DEA AC 47 03 2DED 80 10 2E 2DF0 91 04 2DF2 E8 2DF7 A8 2DF7 A8 2DF7 A8 2DF8 BD 10 2E 2DF8 91 04 2DF9 98 2DFF 18 2DFF 18 2DFF 98 2DFF 18 2DFF 18	ASTA A STEVEN ASTA A CASTA A STA A CASTA A	#40 FREE0 +1 #0 FREE0 +1 #0 FREE0 +1 ADDLOOP HIT #1 FIRED #0 FIRED \$CREEN #<767 FREE0 \$CREEN +1 #>767 FREE0 +1 POSITION GUN,X (FREE0),Y #40 GUN,X (FREE0),Y	2E4C 2E4C 2E4F 2E51 2E55 2E57 2E58 2E56 2E58 2E56 2E68 2E68 2E68 2E68 2E68 2E68 2E71 2E74 2E74 2E78 2E78 2E71 2E74 2E78 2E78 2E78 2E78 2E78 2E78 2E78 2E78	AD 56 03 FD 04 AD 00 DC A9 FD LONG2 BD 08 FF EA EA AD 08 FF EA D 03 28 29 80 08 08 AD 03 28 29 80 NOJOY2 AD 5A 03 GUAGE 18 69 77 85 02 AD 5B 03 69 00 85 03 AD 00 A2 00 A2 00 A2 00 A2 00 A3 FF EA EA B	= DAG ASTA POPPER AND STAND PHONE AND STAND PHONE AND STAND PHONE AND STAND	COMPUTER LONG2 \$DC00 #\$FD \$FF08 \$FF08 \$FF08 TEMP #128 TEMP NOJ0Y2 #239 SCREEN #119 TEMPO SCREEN+1 #0 TEMPO+1 #0 #0 #32 LENGTH NOTG #31 (TEMPO),Y
20BF 69 28 20C1 85 04 20C3 A5 05 20C5 69 00 20C7 85 05 20CA DO FO 20CC 20 6D 2B NADD 20CF A9 01 FORGT 20D1 8D 17 28 20D4 60 20D5 A9 00 NOTFIRE 20D7 8D 17 28 20DA 60 20DB AD 5A 03 PUT 20DE 18 20DF 69 FF 20E1 85 04 20E3 AD 5B 03 20E6 69 02 20E8 85 05 20EA AC 47 03 20ED BD 10 2E 20F7 A8 20F7 A8 20F7 A8 20F5 69 28 20F7 A8 20F6 99 28 20F7 A8 20F8 BD 10 2E 20FB BD 10 2E 20FB BD 10 4 20FD E8 20FE 98	COC ASTA ACE EN TOTAL STATE ACE AND ACE AND ACE AND ACE AND ACE	#40 FREE0 FREE0+1 #0 FREE0+1 ADDLOOP HIT #1 FIRED #0 FIRED SCREEN #<767 FREE0 SCREEN+1 #>767 FREE0+1 POSITION GUN,X (FREE0),Y #40 GUN,X (FREE0),Y	2E4C 2E4C 2E4F 2E51 2E55 2E57 2E58 2E56 2E56 2E66 2E66 2E68 2E60 2E68 2E60 2E71 2E72 2E74 2E76 2E77 2E77 2E78 2E78 2E78 2E78 2E78 2E78	AD 56 03 FO 04 AD 00 DC 60 A9 FD LONG2 BD 08 FF EA AD 08 FF EA AD 08 FF EA AD 03 28 29 80 08 BD 03 28 29 80 08 BD 03 28 29 FF 60 NOJOY2 AD 5A 03 GUAGE 18 69 77 85 02 AD 5A 03 69 00 A2 00 A2 00 A2 00 A2 00 A2 00 A2 00 A3 01 A4 00 A5 02 A9 1F A5 02 A9 1F A5 02	= DAQA STAA PLANDA RESTANDA STAA CADE STAA CAD	COMPUTER LONG2 \$DCOO #\$FD \$FF08 \$FF08 \$FF08 TEMP #128 TEMP NOJOY2 #239 SCREEN #119 TEMPO SCREEN+1 #0 TEMPO+1 #0 #0 #0 #32 LENGTH NOTG #31 (TEMPO),Y TEMPO

2E8F	6D 14 28	ADC	COLDIF	2F35	8D 61 03	STA	MOUSEL
2E92	85 FC	STA	NEWO	2F38	8D 62 03	STA	MOUSEH
2E94	A5 03	LDA	TEMP0+1	2F3B	A9 C8	LDA	#200
2E96	6D 15 28	ADC	COLDIF+1	2F3D	8D 54 03	STA	TIME
2E99	85 FD	STA	NEWO+1	2F40	A9 23	LDA	#35
2E9B	AD 56 03	LDA	COMPLITER	2F42	8D 58 03	STA	BULLETS
2E9E	DO 02	BNF	PLS4	2F45	20 EC 2A	JSR	WINDON
2EAO	A9 71	LDA	#113	2F48	20 6E 29	JSR	SCROUT
2EA2	91 FC PLS4	STA	(NEWO).Y	2F4B	60	RTS	
2EA4	20 E9 30	JSR	ADD40	:			
2EA7	E8	INX		; initia	lize characters		
2EA8	EO 11	CPX	#17	;			
2EAA	D0 D5	BNE	GL	2F4C	CHARINIT	=	*
2EAC	60	RTS		2F4C	AD 56 03	LDA	COMPUTER
;				2F4F	D0 03	BNE	DOCUST
; initiali	ization			2F51	4C D7 2F	JMP	CUST16
;				2F54	78 DOCUST	SEI	=.
2EAD	INII	=	001 (0) (770	21-55	A9 33	LDA	#51
2EAD	AD 56 03	LUA	COMPUTER	21-5/	85 01	SIA	1
2EB0	FU 1E	REC	NOCLSID	2159	20 /6 21	JSH	TRANSFER
2EB2	A9 00	LUA	#0	2550	A9 37	LUA	#55
2EB4	AU I/	LUY	#23 54070 V	2000	92 UI	SIA	1
2EB6 2EB9	99 00 04 0130	DEV	342 <i>12</i> ,1	2000	30 40 10	LDA	404
2EBA	00 10 EA	DET	CI CID	2001	A9 10 9D 19 DO	CTA	# <u>24</u> E2070
2EBC	AO OE	DPL	#1E	2500	90 10 D0	JIM	2021Z #21E
2EBE	AD 19 DA	CTA	# 10 54206	2500	9D 16 D0	CTA	#210 52270
2EC1	ΔQ 1Q	LDA	#25 #25	2F6B	40 UE	IDA	#15
2EC3	8D 13 D4	STA	7/20 5/201	2F6D	8D 22 D0	STA	# 13 53282
2EC6	Δ9 15	LDA	#21	2F70	AQ 02	ΙDΔ	#2
2EC8	8D 05 D4	STA	54977	2F72	8D 23 D0	STA	53283
2ECB	A9 28	IDA	#40	2F75	60	RTS	00200
2ECD	8D 01 D4	STA	54273	2F76	A2 07 TRANSFER	LDX	#7
2ED0	NOCLSID	=	*	2F78	A0 00	LDY	#0
2ED0	A9 00	LDA	#0	2F7A	A9 00	LDA	#<53248
2ED2	8D 08 28	STA	SYNC1	2F7C	85 02	STA	TEMP0
2ED5	8D 16 28	STA	NUMHIT	2F7E	85 04	STA	FREE0
2ED8	8D 5E 03	STA	GLASSCOUNT	2F80	A9 D0	LDA	#>53248
2EDB	A9 7D	LDA	#125	2F82	85 03	STA	TEMP0+1
2EDD	8D 0B 28	STA	GLASSL	2F84	A9 20	LDA	#>8192
2EE0	8D 0C 28	STA	GLASSH	2F86	85 05	STA	FREE0+1
2EE3	A9 05	LDA	#5	2F88	B1 02 CHLOOP1	LDA	(TEMPO),Y
2EE5	8D 0A 28	STA	FALLH	2F8A	8E 03 28	STX	TEMP
2EE8	8D 09 28	STA	FALLL	2F8D	E0 04	CPX	#4
2EEB	8D 46 03	STA	GOODCARD	2F8F	B0 07	BCS	STR
2EEE	8D 66 03	STA	COUNTER	2F91	AE 56 03		
2EF1 2EF3	A9 41	LUA	#65			LUX	COMPUTER
2EF3		OTA	DIANO	2F94	D0 02	BNE	STR
	8D 0D 28	STA	PIANOL	2F94 2F96	D0 02 49 FF	BNE EOR	COMPUTER STR #255
2EF6	8D OD 28 8D OE 28	STA STA	PIANOL PIANOH	2F94 2F96 2F98	D0 02 49 FF AE 03 28 STR	BNE EOR LDX	COMPUTER STR #255 TEMP
2EF6 2EF9	8D 0D 28 8D 0E 28 A9 0F 8D 0E 28	STA STA LDA	PIANOL PIANOH #15	2F94 2F96 2F98 2F9B	D0 02 49 FF AE 03 28 STR 91 04	BNE EOR LDX STA	COMPUTER STR #255 TEMP (FREE0),Y
2EF6 2EF9 2EFB 2EFE	8D OD 28 8D OE 28 A9 OF 8D OF 28 8D 10 28	STA STA LDA STA	PIANOL PIANOH #15 JOYL	2F94 2F96 2F98 2F9B 2F9D	D0 02 49 FF AE 03 28 STR 91 04 88	BNE EOR LDX STA DEY	COMPUTER STR #255 TEMP (FREE0),Y
2EF6 2EF9 2EFB 2EFE 2EO1	8D 0D 28 8D 0E 28 A9 0F 8D 0F 28 8D 10 28	STA STA LDA STA STA	PIANOL PIANOH #15 JOYL JOYH #250	2F94 2F96 2F98 2F9B 2F9D 2F9E	D0 02 49 FF AE 03 28 STR 91 04 88 D0 E8 F6 03	BNE EOR LDX STA DEY BNE	COMPUTER STR #255 TEMP (FREE0),Y
2EF6 2EF9 2EFB 2EFE 2F01 2F03	8D OD 28 8D OE 28 A9 OF 8D OF 28 8D 10 28 A9 FA 8D 18 28	STA STA LDA STA STA LDA STA	PIANOL PIANOH #15 JOYL JOYH #250 CARDSI	2F94 2F96 2F98 2F9B 2F9D 2F9E 2FA0 2FA2	D0 02 49 FF AE 03 28 STR 91 04 88 D0 E8 E6 03 F6 05	BNE EOR LDX STA DEY BNE INC	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMPO+1 FBEF0+1
2EF6 2EF9 2EFB 2EFE 2F01 2F03 2F06	8D OD 28 8D OE 28 A9 OF 8D OF 28 8D 10 28 A9 FA 8D 18 28 8D 19 28	STA STA LDA STA STA LDA STA STA	PIANOL PIANOH #15 JOYL JOYH #250 CARDSH	2F94 2F96 2F98 2F9B 2F9D 2F9E 2FA0 2FA2 2FA4	D0 02 49 FF AE 03 28 STR 91 04 88 D0 E8 E6 03 E6 05	BNE EOR LDX STA DEY BNE INC INC	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMP0+1 FREE0+1
2EF6 2EF9 2EFB 2EFE 2F01 2F03 2F06 2F09	8D 0D 28 8D 0E 28 A9 0F 8D 0F 28 8D 10 28 A9 FA 8D 18 28 8D 19 28 A9 0A	STA STA LDA STA STA LDA STA STA LDA	PIANOL PIANOH #15 JOYL JOYH #250 CARDSL CARDSH #10	2F94 2F96 2F98 2F9B 2F9D 2F9E 2FA0 2FA2 2FA4 2FA6	D0 02 49 FF AE 03 28 STR 91 04 88 D0 E8 E6 03 E6 05 E0 04 D0 09	BNE EOR LDX STA DEY BNE INC INC CPX BNF	COMPUTER STR #255 TEMP (FREEO),Y CHLOOP1 TEMPO+1 FREEO+1 #4 STR2
2EF6 2EF9 2EFB 2EFE 2F01 2F03 2F06 2F09 2F0B	8D 0D 28 8D 0E 28 A9 0F 8D 0F 28 8D 10 28 A9 FA 8D 18 28 8D 19 28 A9 0A 8D 47 03	STA STA LDA STA LDA STA LDA STA LDA STA	PIANOL PIANOH #15 JOYL JOYH #250 CARDSL CARDSH #10	2F94 2F96 2F98 2F9B 2F9D 2F9E 2FA0 2FA2 2FA4 2FA6 2FA8	D0 02 49 FF AE 03 28 STR 91 04 88 D0 E8 E6 03 E6 05 E0 04 D0 09 AD 56 03	BNE EOR LDX STA DEY BNE INC INC CPX BNE LDA	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMP0+1 FREE0+1 #4 STR2 COMPUTER
2EF6 2EF9 2EFB 2EFE 2F01 2F03 2F06 2F09 2F0B 2F0E	8D 0D 28 8D 0E 28 A9 0F 8D 0F 28 8D 10 28 A9 FA 8D 18 28 8D 19 28 A9 0A 8D 47 03 8D 11 28	STA STA LDA STA LDA STA LDA STA STA	PIANOL PIANOH #15 JOYL JOYH #250 CARDSH CARDSH #10 POSITION LENGTH	2F94 2F96 2F98 2F9B 2F9D 2F9E 2FA0 2FA2 2FA4 2FA6 2FA8 2FA8	DO 02 49 FF AE 03 28 STR 91 04 88 E6 03 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 04	BNE EOR LDX STA DEY BNE INC CPX BNE LDA BNE	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMP0+1 FREE0+1 #4 STR2 COMPUTER STR2
2EF6 2EF9 2EFB 2EFE 2F01 2F03 2F06 2F09 2F0B 2F0E 2F11	8D 0D 28 8D 0E 28 A9 0F 8D 0F 28 8D 10 28 A9 FA 8D 18 28 A9 9A 8D 47 03 8D 47 03 8D 11 28 A2 04	STA STA LDA STA LDA STA STA LDA STA LDA STA LDA	PIANOL PIANOH #15 JOYH #250 CARDSH CARDSH #10 POSITION LENGTH #4	2F94 2F96 2F98 2F9B 2F9D 2F9E 2FA0 2FA2 2FA4 2FA6 2FA8 2FAB 2FAB	D0 02 49 FF AE 03 28 STR 91 04 88 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 04 A9 D0	BNE EOR LDX STA DEY BNE INC INC CPX BNE LDA BNE LDA	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMP0+1 FREE0+1 #4 STR2 COMPUTER STR2 #53248
2EF6 2EF9 2EFB 2EFE 2F01 2F03 2F06 2F09 2F0B 2F0E 2F11 2F13	8D 0D 28 8D 0E 28 A9 0F 8D 0F 28 8D 10 28 A9 FA 8D 18 28 8D 19 28 A9 0A 8D 47 03 8D 11 28 A2 04 A2 04	STA STA LDA STA STA LDA STA LDA STA LDA STA LDX JSR	PIANOL PIANOH #15 JOYL JOYH #250 CARDSL CARDSH #10 POSITION LENGTH #4 PUT	2F94 2F96 2F98 2F9B 2F9D 2F9E 2FA0 2FA2 2FA4 2FA6 2FAB 2FAB 2FAB 2FAB	D0 02 49 FF AE 03 28 STR 91 04 88 D0 E8 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 04 A9 D0 85 03	BNE EOR LDX STA DEY BNE INC INC CPX BNE LDA BNE LDA STA	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMP0+1 FREE0+1 #4 STR2 COMPUTER STR2 #>53248 TEMP0+1
2EF6 2EF9 2EFB 2FO1 2F03 2F06 2F09 2F0B 2F0E 2F11 2F13 2F16	8D 0D 28 8D 0F 28 A9 0F 8D 0F 28 8D 10 28 A9 FA 8D 18 28 8D 19 28 A9 0A 8D 47 03 8D 11 28 A2 04 20 DB 2D A9 FF	STA STA LDA STA STA LDA STA LDA STA LDX JSR LDA	PIANOL PIANOH #15 JOYH #250 CARDSL CARDSH #10 POSITION LENGTH #4 PUT #255	2F94 2F96 2F98 2F9B 2F9D 2F9E 2FA0 2FA2 2FA4 2FA6 2FA8 2FAB 2FAB 2FAB 2FAB	D0 02 49 FF AE 03 28 STR 91 04 88 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 04 A9 00 85 03 CA STR2	BNE LDX STA DEY BNE INC CPX BNE LDA BNE LDA STA DEX	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMP0+1 FREE0+1 #44 STR2 COMPUTER STR2 #>53248 TEMP0+1
2EF6 2EF9 2EFB 2EFE 2F01 2F03 2F06 2F09 2F0B 2F0E 2F11 2F13 2F16 2F18	8D 0D 28 8D 0F 28 8D 0F 28 8D 10F 28 8D 10F 28 8D 18 28 8D 19 28 8D 97 03 8D 47 03 8D 47 03 8D 11 28 42 04 20 DB 2D 49 FF 8D 50 03	STA STA LDA STA STA LDA STA LDA STA LDX LDX LDX LDX LDA STA	PIANOL PIANOH #15 JOYL JOYH #250 CARDSH #10 POSITION LENGTH #4 PUT #255	2F94 2F98 2F98 2F9B 2F9D 2F9E 2FA2 2FA4 2FA6 2FAB 2FAB 2FAB 2FAF 2FB1 2FB1	D0 02 49 FF AE 03 28 STR 91 04 88 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 09 AD 56 03 CA STR2 10 D4	BNE EOX STA DEY BNE INC CPX BNE LDA STA BNE LDA STA BPL	COMPUTER STR #255 TEMP (FREE0),Y CHL00P1 TEMP0+1 FREE0+1 #4 STR2 COMPUTER STR2 #>53248 TEMP0+1 CHL00P1
2EF6 2EF9 2EFB 2FO1 2F03 2F06 2F09 2F0B 2F0E 2F11 2F13 2F16 2F18 2F18	8D 0D 28 8D 0F 28 A9 0F 8D 0F 28 8D 10 28 8D 18 28 8D 18 28 8D 19 28 A9 0A 8D 47 03 8D 11 28 A2 04 20 DB 2D A9 FF 8D 50 03 A9 00	STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA LDA	PIANOL PIANOH #15 JOYL JOYH #250 CARDSH CARDSH #10 POSITION LENGTH #4 PUT #255 INDEX #0	2F94 2F98 2F98 2F99 2F9E 2FA0 2FA2 2FA4 2FAB 2FAB 2FAD 2FAF 2FB1 2FB1 2FB2	D0 02 49 FF AE 03 28 STR 91 04 88 D0 E8 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 04 A9 D0 85 03 CA STR2 10 D4	BNE LDA STA DEX BNE LDA BNE LDA BNE LDA STA DEX BPL LDY	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMPO+1 FREE0+1 #4 STR2 COMPUTER STR2 #>53248 TEMPO+1 CHLOOP1 #0
2EF6 2EF9 2EFB 2EFE 2F01 2F03 2F06 2F09 2F0B 2F11 2F13 2F13 2F18 2F18	8D 0D 28 8D 0F 28 8D 0F 28 8D 1F 28 8D 18 28 8D 18 28 8D 19 28 8D 17 03 8D 11 28 A2 04 20 DB 2D A9 FF 8D 50 03 A9 00 8D 4A 03	STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA	PIANOL PIANOH #15 JOYL JOYH #250 CARDSL CARDSH #10 POSITION LENGTH #4 PUT #255 INDEX #0 SURPRISE	2F94 2F96 2F98 2F9D 2F9E 2FA0 2FA2 2FA4 2FAB 2FAB 2FAD 2FAF 2FB1 2FB2 2FB4	D0 02 49 FF AE 03 28 STR 91 04 88 D0 E8 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 04 A9 D0 85 03 CA STR2 10 D4 A9 D0 B9 98 38 DEFLOOP	BNE LDA STA DEY BNE LDA BNE LDA STA DEY LDA STA DEX LDA STA DEX LDA	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMPO+1 FREE0+1 #4 STR2 COMPUTER STR2 #53248 TEMPO+1 CHLOOP1 #0 CHARDEF,Y
2EF6 2EF9 2EFB 2EFE 2F01 2F03 2F06 2F09 2F0B 2F11 2F13 2F16 2F18 2F1B 2F1D 2F20	8D 0D 28 8D 0F 28 8D 0F 28 8D 1F 28 8D 19 28 8D 18 28 8D 19 28 8D 97 03 8D 47 03 8D 50 03 8D 50 03 8D 50 03 8D 52 03	STA STA LDA STA LDA STA STA LDA STA LDX JSR LDX JSR LDA STA STA STA	PIANOL PIANOH #15 JOYH #250 CARDSL CARDSH #10 POSITION LENGTH #4 PUT #255 INDEX #0 SURPRISE SCORE	2F94 2F98 2F98 2F9D 2F9E 2FA0 2FA2 2FA4 2FA6 2FAB 2FAB 2FAB 2FB1 2FB1 2FB2 2FB4 2FB6 2FB9	D0 02 49 FF AE 03 28 STR 91 04 88 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 04 A9 D0 85 03 CA STR2 10 D4 A0 00 99 98 38 DEFLOOP 99 00 24	BNE EOR STA DEY BNE INC CPX BNE LDA BNE LDA STA DEX BPL LDA STA	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMP0+1 FREE0+1 #4 STR2 COMPUTER STR2 #>53248 TEMP0+1 CHLOOP1 #0 CHARDEF,Y 9216,Y
2EF6 2EFB 2EFB 2FO1 2FO3 2FO6 2FO8 2FOB 2F13 2F16 2F18 2F1B 2F1D 2F20 2F20 2F20 2F20	8D 0D 28 8D 0F 28 8D 0F 28 8D 1F 28 8D 18 28 8D 19 28 8D 19 28 8D 19 28 8D 11 28 8D 11 28 A2 04 20 DB 2D A9 FF 8D 53 03 8D 53 03 8D 53 03	STA STA LDA STA LDA STA LDA STA LDX JSR LDA STA LDA STA LDA STA STA	PIANOL PIANOH #15 JOYL JOYL #250 CARDSL CARDSL CARDSH #10 POSITION LENGTH #4 PUT #255 INDEX #0 SURPRISE SCORE SCORE SCORE	2F94 2F96 2F98 2F9D 2F9D 2F9C 2FA2 2FA4 2FA6 2FAB 2FAB 2FAD 2FB1 2FB2 2FB4 2FB6 2FB9	D0 02 49 FF AE 03 28 STR 91 04 88 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 04 A9 D0 85 03 CA STR2 10 D4 A0 00 B9 98 38 DEFLOOP 99 00 24 B9 93 39	EUX BNR LDX STA DEYE BNC INC CPX BNE LDA STA LDA STA LDA	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMPO+1 FREE0+1 #4 STR2 COMPUTER STR2 #>53248 TEMP0+1 CHLOOP1 #0 CHARDDEF,Y 9216,Y CHARDEF+248,Y
2EF6 2EFB 2EFB 2FO1 2FO3 2FO9 2FOB 2FOB 2F13 2F16 2F18 2F1B 2F1B 2F20 2F20 2F23 2F26	8D 0D 28 8D 0F 28 8D 0F 28 8D 10 28 8D 10 28 8D 18 28 8D 18 28 8D 19 28 8D 47 03 8D 11 28 A9 0A 20 DB 2D A9 FF 8D 50 03 A9 50 03 8D 44 03 8D 52 03 8D 53 03 8D 63 03	STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA STA	PIANOL PIANOH #15 JOYL JOYH #250 CARDSL CARDSH #10 POSITION LENGTH #44 PUT #255 INDEX #0 SURPRISE SCORE SCORE SCORE SCORE #10 BONGLAG	2F94 2F98 2F98 2F9D 2F9E 2FA0 2FA2 2FA4 2FA6 2FAB 2FAD 2FAF 2FB1 2FB2 2FB4 2FB6 2FB8 2FBC 2FBC 2FBC	D0 02 49 FF AE 03 28 STR 91 04 88 D0 E8 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 04 A9 D0 85 03 CA STR2 10 D4 A0 00 B9 98 38 DEFLOOP 99 00 24 B9 93 39 99 F8 24	EDX BNE EOR LDX STA DEY BNE INC CPX BNE LDA STA LDA STA LDA STA LDA STA	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMP0+1 FREE0+1 #4 STR2 COMPUTER STR2 #>53248 TEMP0+1 CHLOOP1 #0 CHARDEF,Y 9216,Y CHARDEF+248,Y 9216+248,Y
2EF6 2EFB 2EFB 2EFE 2F01 2F06 2F09 2F0B 2F11 2F13 2F16 2F1B 2F1B 2F1D 2F23 2F23 2F26 2F29	8D 0D 28 8D 0F 28 8D 0F 28 8D 1F 28 8D 1F 28 8D 18 28 8D 18 28 8D 19 28 8D 47 03 8D 11 28 8D 11 28 A2 04 20 DB 2D A9 FF 8D 50 03 A9 00 8D 4A 03 8D 53 03 8D 63 03 A9 00	STA STA LDA STA LDA STA LDA STA LDA STA LDA STA STA STA STA STA STA	PIANOL PIANOH #15 JOYH #250 CARDSL CARDSH #10 POSITION LENGTH #4 PUT #255 INDEX #0 SURPRISE SCORE SCORE SCORE #1 BONFLAG #0	2F94 2F98 2F9B 2F9D 2F9E 2FA2 2FA2 2FA4 2FA8 2FAB 2FAB 2FB1 2FB2 2FB4 2FB6 2FB9 2FBC 2FBC 2FBC 2FBC 2FBC 2FBC 2FBC 2FBC	DO 02 49 FF AE 03 28 STR 91 04 88 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 04 A9 D0 85 03 CCA STR2 10 D4 A0 00 B9 9B 38 DEFLOOP 99 00 24 B9 93 39 99 F8 24 B9 B3 3A	EUX BNE EOR LDX STAY BNE INC INC CPX BNE LDA BNE LDA STA LDA STA LDA	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMP0+1 FREE0+1 #4 STR2 COMPUTER STR2 #>53248 TEMP0+1 CHLOOP1 CHARDEF,Y 9216,Y CHARDEF+248,Y 9216+248,Y NEWDEF,Y
2EF6 2EFB 2EFB 2FO3 2FO6 2FO9 2FOB 2F11 2F11 2F18 2F18 2F1B 2F1B 2F20 2F20 2F20 2F20 2F29 2F28	8D 0D 28 8D 0F 28 8D 0F 28 8D 10F 28 8D 10F 28 8D 18 28 8D 19 28 8D 97 03 8D 47 03 8D 47 03 8D 47 03 8D 47 03 8D 50 03 8D 60 03 8D 60 03 8D 60 03 8D 60 03	STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA STA	PIANOL PIANOH #15 JOYH #250 CARDSL CARDSH #10 POSITION LENGTH #4 PUT #255 INDEX #0 SURPRISE SCORE SCORE #10 SONGRIUM	2F94 2F98 2F98 2F9D 2F9E 2FAO 2FA2 2FA4 2FA6 2FA8 2FAB 2FAB 2FBD 2FBC 2FBC 2FBC 2FBC 2FBC 2FBC	D0 02 49 FF AE 03 28 STR 91 04 88 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 04 A9 D0 85 03 CA STR2 10 D4 A0 00 B9 98 38 DEFLOOP 99 00 24 B9 93 39 99 F8 24 B9 B3 3A 99 D0 21	BNE LDX STAY BNE LDX STAY BNC CPX BNC CPX BNDA BNDA BNDA STAY BDA STAY BDA STAY BDA STAY STAY STAY STAY STAY STAY STAY STA	COMPUTER STR #255 TEMP (FREE0),Y CHLODP1 TEMP0+1 FREE0+1 #4 STR2 COMPUTER STR2 CHLOOP1 #0 CHARDEF,Y 9216,Y CHARDEF+248,Y 9216+248,Y NEWDEF,Y 8656,Y
2EF6 2EFB 2EFB 2F03 2F06 2F09 2F08 2F11 2F13 2F18 2F18 2F18 2F18 2F20 2F23 2F23 2F26 2F29 2F29 2F29	8D 0D 28 8D 0F 28 8D 0F 28 8D 10F 28 8D 18 28 8D 18 28 8D 18 28 8D 19 28 8D 47 03 8D 11 28 A2 04 20 DB 2D A9 FF 8D 50 03 A9 00 8D 4A 03 8D 53 03 8D 63 03 A9 FF 8D 64 03 A9 FF 8D 65 03	STA STA STA STA STA STA STA LDX STA LDX JSR LDX STA LDX STA LDX STA LDA STA LDA STA LDA	PIANOL PIANOH #15 JOYL JOYH #250 CARDSH #10 POSITION LENGTH #4 PUT #255 INDEX #0 SURPRISE SCORE SCORE SCORE #1 BONFLAG #0 SONGNUM #255	2F94 2F98 2F98 2F90 2F90 2FA2 2FA4 2FA6 2FA8 2FAB 2FAB 2FB1 2FB2 2FB2 2FB2 2FB2 2FB2 2FB2 2FB	DO 02 49 FF AE 03 28 STR 91 04 88 E6 03 E6 05 E0 04 D0 09 AD 56 03 D0 04 A9 D0 85 03 CA STR2 10 D4 A0 00 B9 98 38 DEFLOOP 99 00 24 B9 93 39 99 F8 24 B9 B3 3A B9 D0 21 88	EUXE BOR LDX STEY BNE CPX BNE LDA STA DEX LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA LDA LDA LDA LDA LDA LDA LDA LDA LD	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMPO+1 FREE0+1 #4 STR2 COMPUTER STR2 #>53248 TEMPO+1 CHLOOP1 #0 CHARDEF,Y 9216,Y NEWDEF,Y 8656,Y DEFLOOP
2EF6 2EFB 2EFB 2EFB 2F03 2F06 2F08 2F0B 2F13 2F16 2F18 2F1B 2F1D 2F23 2F28 2F28 2F28 2F28 2F28 2F33	8D 0D 28 8D 0E 28 8D 0F 28 8D 0F 28 8D 10 28 8D 10 28 8D 18 28 8D 18 28 8D 19 28 8D 17 28 8D 18 28 8D 19 20 8D 47 03 8D 11 28 42 04 42 04 42 04 42 04 43 65	STA STA STA LDA STA LDA STA LDA STA LDA STA STA STA STA STA STA STA STA STA ST	PIANOL PIANOH #15 JOYL JOYH #250 CARDSL CARDSH #10 POSITION LENGTH #4 PUT #255 INDEX #0 SURPRISE SCORE SCORE SCORE H BONFLAG #0 SONGNUM #255 NOTENUM #101	2F94 2F98 2F98 2F99 2F95 2FA0 2FA2 2FA4 2FAB 2FAB 2FB1 2FB1 2FB2 2FB5 2FB5 2FB5 2FB5 2FB5 2FB5 2FB5	8D 61 03 8D 62 03 A9 C8 8D 54 03 A9 23 8D 58 03 20 EC 24 20 6E 29 60 SIZE CHARRINIT AD 56 03 D0 03 D0 07 78 3 D0 003 B5 01 20 76 2F A9 37 A9 37 A9 38 B0 18 D0 A9 D8 B0 18 D0 A9 D8 B0 16 D0 A9 07 A9 00 A9 07 A9 00 B5 03 B6 03 B7 A9 00 B8 03 B8 01 B9 03 B9 03 B9 04 B9 03 B9 00 B9 03 B9 00 B9 03 B9 03 B9 00	LUXE BEOR LDX STA DEY BNE INC CPX BLDA BDE LDA STA LDA	COMPUTER STR #255 TEMP (FREE0),Y CHLOOP1 TEMP0+1 FREE0+1 #4 STR2 COMPUTER STR2 #53248 TEMP0+1 CHLOOP1 #0 CHARDEF,Y 9216,Y CHARDEF+248,Y 9216,Y NEWDEF,Y 8656,Y DEFLOOP

2FCD B9 93 3A MD 2FD0 99 D8 20 2FD3 88 2FD4 10 F7 2FD6 60 2FD7 AD 12 FF CUST16 2FDA 29 FB 2FDC 8D 12 FF 2FDF AD 13 FF 2FE2 29 03 2FE4 09 20 2FE6 8D 13 FF 2FE9 A9 D8 2FEB 8D 07 FF 2FE9 A9 D8 2FEB 8D 07 FF 2FEE A9 62 2FF0 8D 17 FF 2FEF A9 62 2FF0 8D 17 FF 2FF3 A9 41 2FF5 8D 16 FF 2FF8 4C 76 2F	LDA MOUS,Y STA 8408,Y DEY BPL MD RTS LDA 65298 AND #251 STA 65298 LDA 65299 AND #3 ORA #32 STA 65299 LDA #216 STA 65287 LDA #98 STA 65303 LDA #65 STA 65302 JMP TRANSFER	3056 20 FB 2F 3059 30 2E 305B 20 FB 2F AG 305E 29 03 3060 C9 03 3062 FO 25 3064 AA 3065 A5 04 3067 18 3068 7D 8A 30 306B 85 04 306D A5 05 306D A5 05 3071 85 05 3071 85 05 3073 AO 00 3075 A9 85 3077 91 04 3079 C8	JSR RAND BMI FORGET JSR RAND AND #3 CMP #3 BEQ FORGET TAX LDA FREE0 CLC ADC NUMBER,X STA FREE0 LDA FREE0+1 ADC #0 STA FREE0+1 LDY #0 LDA #133 STA (FREE0),Y INY LDA #134
; random number	ONI TIPMOTEIT	307C 91 04 307E AO 28	STA (FREE0),Y LDY #40
; 2FFB RAND 2FFB AD 07 28	= * LDA SEED ASL	3080 A9 87 3082 91 04 3084 C8	LDA #135 STA (FREEO),Y INY
2FFE OA 2FFF OA 3000 38	ASL ASL SEC	3085 A9 88 3087 91 04 3089 60 FORGET	LDA #136 STA (FREE0),Y
3001 6D 07 28 3004 8D 07 28 3007 60	ASL SEC ADC SEED STA SEED RTS	308A 00 F0 78 NUMBER 308D AD 08 28 FALL 3090 4A	RTS .BYT 0,240,120 LDA SYNC1 LSR
; ; scroll glasses		3091 B0 55 3093 A2 09	BCS NO LDX #9
3008 GLASS 3008 20 FF 2C	= * JSR FIX	3095 AD 5A 03 3098 18	LDA SCREEN CLC ADC #<742
300B EE 08 28 300E AD 5A 03 3011 18 3012 69 70	INC SYNC1 LDA SCREEN CLC ADC #<368	309B 85 04 309D AD 5B 03 30AO 69 02 30A2 85 05	STA FREE0 LDA SCREEN+1 ADC #>742 STA FREE0+1
3014 85 02 3016 85 04 3018 AD 5B 03	STA TEMPO STA FREE0 LDA SCREEN+1	30A4 A5 04 FLUUP2 30A6 38 30A7 E9 28	LDA FREE0 SEC SBC #40
301B 69 01 301D 85 03 301F 85 05 3021 A9 03	ADC #>368 STA TEMP0+1 STA FREE0+1 LDA #3	30A9 85 02 30AB A5 05 30AD E9 00 30AF 85 03 30B1 A0 01	STA TEMPO LDA FREE0+1 SBC #0 STA TEMPO+1
3023 8D 03 28	STA TEMP LDX #2	30B1 A0 01 30B3 B1 02 FLOOP1	LDY #1
3028 A0 0E GL00P1 302A B1 02 GL00P2 302C C9 85 302E 90 04	LDY #14 LDA (TEMPO),Y CMP #133 BCC BAD	30B5 E0 09 30B7 D0 0B 30B9 C9 85 30BB D0 07	LDA (TEMPO),Y CPX #9 BNE NCH CMP #133 BNE NCH
3030 C9 89 3032 90 02 3034 A9 20 BAD 3036 C8 FOG	CMP #137 BCC FOG LDA #32	30BD 48 30BE A9 05 30C0 20 2C 29 30C3 68	PHA LDA #5 JSR SUBSCORE
3037 91 02 3039 88 303A 88	iny Sta (tempo),y Dey Dey	30C4 C9 84 NCH 30C6 D0 02 30C8 A9 20	PLA CMP #132 BNE DOT LDA #32
303B 10 ED 303D C8 303E A9 20 3040 91 02	BPL GLOOP2 INY LDA #32 STA (TEMPO),Y	30CA 91 04 DOT 30CC 88 30CD 10 E4 30CF A5 04	STA (FREE0),Y DEY BPL FLOOP1 LDA FREE0
3042 20 E9 30 3045 CA 3046 D0 E0 3048 20 E9 30 304B CE 03 28	DEX BNE GLOOP1 JSR ADD40 DEC TEMP	30D2 E9 28 30D4 85 04 30D6 A5 05 30D8 E9 00	SEC SBC #40 STA FREE0 LDA FREE0+1 SBC #0
304E D0 D6 3050 AD 08 28	BNE GLOOP3 LDA SYNC1	30DA 85 05 30DC CA	STA FREE0+1 Dex
3053 4A 3054 B0 33	LSR BCS FORGET	30DD D0 C5 30DF A0 01	BNE FLOOP2 LDY #1

30E1 A9 20 FL00P4	LDA	#32	3171	0A	ASL	
30E3 91 02	STA DEY BPL RTS LDA CLC ADC	(TEMP0),Y	3171 3172 3173 3175 3176 3178 3179 317C 317F 3182 3185 3188 3188 3188 3189 3190	A8	TAY	
30E5 88	DEY	F1 0004	3173	B1 04	LDA	(FREE0),Y
30E6 10 F9	BPL	FLOOP4	31/5	38 E9 01	SEC SBC	#1
30E8 60 NO 30E9 A5 02 ADD40	HIS LDA	TEMP0	31/0 3178	E9 U1	ASI	#1.
30EB 18	CLC	I LIVII O	3179	0A AE 56 03	ASL LDX BNE TAX LDA STA LDA ORA STA LDA ORA STA JMP TAX	COMPUTER
30EC 69 28	ADC	#40	317C	DO 1D	BNE	COM2
30EE 03 02	JIM	TEMP0	317E	BD F6 31 8D 0E FF AD 12 FF 21D F7 31 8D 12 FF AD 11 FF AD 11 FF	TAX	
30F0 A5 03	LDA	TEMP0+1	317F	BD F6 31	LDA	PLUSNOTE,X
30F2 69 00 30F4 85 03	ADC STA	#0 TEMP0+1	3182	8D UE FF	SIA	65294 65298
30F6 60	RTS	I EIVIPUT I	3188	AD 12 FF 20 FC	AND	#252
3010 00	1110		318A	1D F7 31	ORA	PLUSNOTE+1,X
scroll the piano			318D	8D 12 FF	STA	65298
			3190	AD 11 FF	LDA	65297
30F7 30F7 30F7 30F7 30F7 30F8 69 FD 30FD 85 02 30FF AD 58 03 3102 69 01 3104 85 03 28 3108 AD 06 28 PL00P3 3111 AZ 02 PL00P1 3113 AD 03 28 PL00P2 3116 18 3117 69 28 3119 A8 3110 B1 02 3116 AC 03 28 3122 AC AC 312B D0 66 312D A8 312C CA 312B D0 66 3132D AB 312C AZ AD 313C CE 06 28 313F AZ BD 03 28 312C AZ AD 313C CE 06 28 313F AZ BD 03 28 312C AZ AD 313C CE 06 28 313F AZ BD 03 313C CE 06 28 313F AZ BD 03 313C CE 06 28 313F AZ BD 03 3	=	*	3193	09 10	ORA	#16
30F7 AD 5A 03 30FA 18	LDA	SCREEN	3195	8D 11 FF 4C B6 31	SIA	65297 DURATION
30FB 69 FD	ADC	#~50Q	3198 310B	AA COM2 BD 39 32	TAY	DUNATION
30FD 85 02	STA	TEMPO	319C	BD 39 32	LDA	NOTE64+1,X
30FF AD 5B 03	LDA	SCREEN+1	319F	4A	LSR	
3102 69 01	ADC	#>509	31A0	08	PHP	
3104 85 03	STA	TEMP0+1	31A1	8D 0F D4	STA	54287
3106 A9 02	LDA	#2	31A4	08 8D 0F D4 BD 38 32 28	LDA	NOTE64,X
3108 8D 06 28 310B AD 06 28 PLOOP3	SIA	TEMP4	31A7	28	PLP	
310E 8D 03 28	STA	TEMP	31A0	AD UE DA	STA	54286
3111 A2 02 PLOOP1	LDX	#2	31AC	A9 10	LDA	#16
3113 AD 03 28 PL00P2	LDA	TEMP	31AE	8D 12 D4	STA	54290
3116 18	CLC		31B1	BD 38 32 28 6A 8D 0E D4 A9 10 8D 12 D4 A9 11 8D 12 D4 DURATION AD 5A 03 18 69 9A 85 02 AD 5B 03 69 02 85 03 98 48	LDA	#17
3117 69 28	ADC	#40	31B3	8D 12 D4	STA	54290
3119 A8	TAY	TEMPO	3186	AD SA CO	= LDA	CODEEN
311A 8D 04 28 311D B1 02	SIA	TEMP2	3180	AD 5A 03	CLC	SCREEN
311F AC 03 28	IDV	TEMP	31BA	69 9A	ADC	#<666
3122 91 02	STA	(TEMPO).Y	31BC	85 02	STA	TEMP0
3124 AD 04 28	LDA	TEMP2	31BE	AD 5B 03	LDA	SCREEN+1
3127 8D 03 28	STA	TEMP	31C1	69 02	ADC	#>666
312A CA	DEX		31C3	85 03	STA	TEMP0+1
312B D0 E6 312D A8	BNE	PLOOP2	3105	98 48	i ya Pha	
312E A2 A0	IAT	#160	3107	40 A9 B6	LDA	#182
3130 20 FB 2F	JSR	RAND	31C9	AO 08	LDY	#8
3133 C9 32	CMP	#50	31CB	A0 08 91 02 FLP	STA	(TEMPO),Y
3135 B0 02	BCS	PERIOD	31CD	88 10 FB	LDY STA DEY	
3137 A2 B5	LDX	#181	31CE	10 FB	BPL	FLP
3139 8A PERIOD 313A 91 02	IXA	(TEMPO) V	3100	8A 4A	TXA LSR	
313C CE 06 28	DEC	(TEMPU), T	31D2	4A 4A	LSR	
313F 10 CA	BPL	PLOOP3	31D3	4A	LSR	
3141 CE 66 03	DEC	COUNTER	31D4	AU UB 91 02 FLP 88 10 FB 8A 4A 4A 4A 90 02	CMP	#8
3144 F0 01	BEQ	DOSONG	31D6	90 02	BCC LDA	FN
3146 60	RTS	00110111111	31D8	A9 07	LDA	#7
3147 AD 64 03 DOSONO 314A C9 02	i LDA	SUNGNUM	31DA	AB FN	tay LDA	#184
314C D0 03	RNE	CMUS	3100	A9 D0 Q1 D2	STA	(TEMPO),Y
314E 4C ED 31	JMP	ROME	31DF	C8	STA	(TEIVIII O), I
3151 A8 CMUS 3152 OA 3153 AA	TAY		31E0	A9 B9	IDA	#185
3152 OA	ASL		31E2	91 02	STA PLA	(TEMP0),Y
3153 AA	TAX	20110014	31E4	68	PLA	
3154 BD 7A 32	LDA	SUNGS,X	3155	AB	TAY	
3157 85 04 3159 BD 7B 32 315C 85 05	I DV	SONGS 1 Y	31E0	A9 07 A8 FN A9 B8 91 02 C8 A9 B9 91 02 68 A8 C8 B1 04 BD 66 03 60	iny LDA	(FREEO),Y
315C 85 05	STA	FREEO+1	31E9	8D 66 03	STA	COUNTER
315E B9 AF 33	ĹĎÁ	SONGLEN,Y	31EC	60	DTC	
3161 CD 65 03	CMP	NOTENUM	31ED	AD 11 FF ROME	LDA	65297
3164 B0 05	BCS	OKAY	31F0	29 4F	AND	#79 ccoo7
3166 A9 FF 3168 8D 65 03	LUA	#ZOO NOTENI IM	3112	AD 11 FF ROME 29 4F 8D 11 FF 60	STA RTS	65297
3144 FD 01 3146 60 3147 AD 64 03 DOSONG 314A C9 02 314C D0 03 314E 4C ED 31 3151 AB CMUS 3152 0A 3153 AA 3154 BD 7A 32 3157 85 04 3159 BD 7B 32 3150 85 05 315E B9 AF 33 3161 CD 65 03 3164 B0 05 3166 A9 FF 3168 BD 65 03 316B EE 65 03 OKAY 316E AD 65 03	INC	#<509 TEMPO SCREEN+1 #>509 TEMPO+1 #>509 TEMPO+1 #2 TEMP4 TEMP4 TEMP4 TEMP4 TEMP #2 TEMPP #40 TEMP2 (TEMPO),Y TEMP (TEMPO),Y TEMP2 TEMP PLOOP2 #160 #181 (TEMPO),Y TEMP3 COUNTER DOSONG SONGNUM #2 CMUS ROME SONGS,X FREEO SONGS,X FREEO SONGS+1,X FREEO+1 SONGENUM NOTENUM	31FA	54 02 6C PLUSNOTE	WORD	596,620,643,664,68
316E AD 65 03	LDA	NOTENUM	50			5,704,722,739,755

3208	02 03 10	.WORD	770,784,798,810,82	33B7	F0 2B	BEQ	COMM64
321A	69 03 71	WODD	2,834,844,854,864	33B9 33BB	A9 00 8D 12 28	LDA STA	#<2048 COLOR
32 IA	09 03 71	.WUND	873,881,889,897,90 4,911,917,923,929	33BE	A9 08	LDA	#>2048
322C	A6 03 AB	.WORD	934,939,944,948,95	3300	8D 13 28	STA	COLOR+1
3238	87 21 86 NOTE64	WORD	3,957 8583,9094,9634,10	33C3 33C5	A9 00 8D 14 28	LDA STA	#<-1024 COLDIF
0200	07 21 00 1101204	.110110	207,10814,11457,1	3308	A9 FC	LDA	#>-1024
2040	00 00 00	WODD	2139	33CA 33CD	8D 15 28 A9 03	STA	COLDIF+1
3246	3C 32 39	.WURD	12860,13625,14435 ,15294,16203,1716	33CF	8D 10 FF	LDA STA	#3 65296
	.= .= .=		7,18188	33D2	A9 C8	LDA	#200
3254	45 4B BF	.WURD	19269,20415,21629 ,22915,24278,2572	33D4 33D7	8D OF FF A9 OF	STA LDA	65295 #15
			1,27251	33D9	8D 11 FF	STA	65297
3262	C7 70 7C	.WORD	28871,30588,32407 .34334	33DC 33DE	A9 00 A2 00	LDA LDX	#0 #<3072
326A	18 8E 8B	.WORD	36376,38539,40830	33E0	AO OC	ĹĎŶ	#>3072 #>3072
			,43258,45830,4855	33E2	D0 1A	BNE	AR4
3276	F3 C8 E6	WORD	51443,54502	33E4 33E6	A9 00 COMM64 8D 12 28	LDA STA	#<55296 COLOR
327A	80 32 02 SONGS		SONG1,SONG2,SON	33E9	A9 D8	LDA	#>55296
3280	19 01 1B SONG1	.BYT	G3 25,1,27,2,25,1,27,2,	33EB 33EE	8D 13 28 A9 00	STA LDA	COLOR+1 #<54272
0200	19 01 10 condi	.011	25,2,22,1,23,2,22,1 23,2,22,2,20,1,22,2,	33F0	8D 14 28	STA	COLDIF
3290	17 02 16	.BYT	23,2,22,2,20,1,22,2,	33F3 33F5	A9 D4	LDA STA	#>54272 COLDIF+1
32A0	16 01 14	.BYT	20,1,22,2,20,2,15,8 22,1,20,2,19,1,22,2,	33F8	8D 15 28 A9 01	LDA	#1
0000	10.01.40	D) CT	20,2,25,8,18,1,22,2	33FA	A2 00	LDX	#<1024 #: 1004
32B0 32B8	19 01 1D 19 01 1B	.BYT .BYT	25,1,29,2,27,2,25,8 25,1,27,2,25,1,27,2	33FC 33FE	AO 04 8D 56 03 AR4	LDY STA	#>1024 COMPUTER
			20,2,25,8,18,1,22,2 25,1,29,2,27,2,25,8 25,1,27,2,25,1,27,2, 25,22,1,23,2,22,1	3401	8E 5A 03	STX	SCREEN
32C8	17 02 16	.BYT	23,2,22,2,20,1,22,2, 20,1,22,2,20,2,15,8	3404 3407	8C 5B 03 60	STY RTS	SCREEN+1
32D8	14 01 16	.BYT	20,1,22,2,20,1,25,2,	;		11.10	
32E8	19 02 16	.BYT	22,2,20,1,22,2,20,1 25,2,22,2,20,1,22,2,	; string	out routine		
JZLO	19 02 10	.011	20,1,25,2,20,2,18,2	, 3408	AE 56 03 STROUT	LDX	COMPUTER
32F8	0D 01 0F	.BYT	13,1,15,2,13,1,10,2,	340B	F0 03	BEQ	PLUS2
3302	09 01 10 SONG2	.BYT	6,4 9,1,16,1,9,1,13,1,16,	340D 3410	4C 1E AB 4C 88 90 PLUS2	JMP JMP	\$AB1E \$9088
0044	·		2,8,1,16,1,8,1,11,1				
3314 3316	10 05 09 01 10	.BYT .BYT	16,5 9,1,16,1,9,1,13,1,16,	; numt	per output routine		
			2,8,1,16,1,8,1,11,1	3413	8E 03 28 NUMOUT	STX	TEMP
3328	10 03 04	.BYT	16,3,4,2,5,4,4,2,4,2, 5,4,4,4,9,1,9,1	3416 3419	8D 04 28 A0 FE	STA LDY	TEMP+1 #254
333A	0C 01 15	.BYT	12,1,21,1,9,1,9,1,12,	341B	C8 FLOOP	INY	11 201
			1,21,1,21,1,21,1,24,	341C 341D	C8 AD 03 28	iny LDA	TEMP
334C	21 01 15	.BYT	33,1,21,1,21,1,24,1,	3420	38	SEC	I LIVII
2050	04 00 04	D\/T	33,1	3421 3424	F9 53 34 AD 04 28	SBC	DTAB,Y TEMP+1
3356	21 02 21	.BYT	33,2,33,2,33,2,33,1, 33,2,28,1,30,1,25,1	3424	F9 54 34	LDA SBC	DTAB+1.Y
3366	1C 01 1E	.BYT	28,1,30,2,21,2,23,1, 25,1,21,1,23,1,25,1 21,1,23,1,25,1,21,1,	342A	BO EF	BCS	FL00P
3376	15 01 17	.BYT	25,1,21,1,23,1,25,1 21,1,23,1,25,1,21,1	342C 342D	98 4A	TYA LSR	
			23.2.21.4	342E	8D 05 28	STA	TEMP+2
3382	15 02 15	.BYT	21,2,21,2,21,2,21,1, 21,2,16,1,18,1,13,1	3431 3433	A9 04 38	LDA SEC	#4
3392	10 01 12	.BYT	16,1,18,2,9,2,11,1,1	3434	ED 05 28	SBC	TEMP+2
33A2	09 01 0B	.BYT	3,1,9,1,11,1,13,1 9,1,11,1,13,1,9,1,11,	3437 3438	AA F0 08	TAX BEQ	Q
			2,9,5	343A	A9 20 SPOUT	LDA	#32
33AE 33AF	00 SONG3 3F 54 00 SONGLEN	.BYT .BYT	0 63,84,0	343C 343F	20 D2 FF CA	JSR Dex	\$FFD2
;		.511	00,0 T,0	3440	D0 F8	BNE	SPOUT
; which	n computerprint			3442 3445	AE 03 28 Q AD 04 28	LDX LDA	TEMP TEMP+1
33B2	HUH	=	•	3448	AC 56 03	LDY	COMPUTER
33B2	AD 28 03	LDA	\$328 #\$ED	344B 344D	F0 03 4C CD BD	BEQ JMP	PLUS3 \$BDCD
33B5	C9 ED	CMP	#\$ED	344D	TO UU UU	PIAIL	ADDOD

3450	4C 5F A4	PLUS3	JMP	\$A45F	34F0	8D 03 28	DLOOP3	STA	TEMP
3453	UA UU 04	DIAB	.WUHD	10,100,1000,10000, 65535	34F3	AE U3 28	DLUUP3	LDX	TEMP #8
:				00000	34F8	18		CLC	#0
; draw	screen				34F9	20 F0 FF		JSR	\$FFF0
; 2450		DDAMOODEE		•	34FC	A9 1B		LDA	# <string5< td=""></string5<>
345D 345D	AQ Q3	DHAMASCHEE	I DA	#"/CLR\"	34FE 3500	20 08 34		ISB	#>STRING5 STROUT
345F	20 D2 FF		JSR	\$FFD2	3503	AD 03 28		LDA	TEMP
3462	AD 12 28		LDA	COLOR	3506	38		SEC	
3465	85 04		STA	FREE0	3507	E9 03		SBC	#3
3467 346A	AD 13 28 85 05		STA	FREED+1	3509 350C	C9 04		CMP	TEMP #10
346C	A9 0F		LDA	#15	350E	BO E3		BCS	DLOOP3
346E	AE 56 03		LDX	COMPUTER	3510	A2 0B		LDX	#11
3471 3473	DO 02		BNE	PLS1	3512	AO 19		LDY	#25
3475	A9 0F A2 04	PLS1	LDA	#111	3515	20 F0 FF		JSB	\$FFF0
3477	AO 00	. 201	LDY	#0	3518	A9 5C		LDA	# <piano1< td=""></piano1<>
3479	91 04	COLCOP	STA	(FREEO),Y	351A	A0 36		LDY	#>PIANO1
347B 347C	88 D0 ED		DEY	COLOOD	3510	20 08 34	•	JSR	STROUT #11
347E	E6 05		INC	FREE0+1	3521	A2 0B A0 1A		LDY	#11
3480	CA		DEX		3523	18		CLC	
3481	D0 F6		BNE	COLOOP	3524	20 F0 FF		JSR	\$FFF0
3481 3483 3485	A9 UU AE 56 03		LDA	#U	3527	A9 /8		LDA	# <piano2 #>PIANO2</piano2
3488	FO 08		BEQ	PLUS1	352B	20 08 34		JSR	STROUT
348A	8D 20 D0		STA	53280	352E	A2 0C		LDX	#12
348D	8D 21 D0		STA	53281	3530	A0 1D		LDY	#29
3490 3492	RD 15 FF	PLUS1	STA	AH1 65301	3532 3533	18 20 F0 FF		ISB	\$FFF0
3495	8D 19 FF	7 2001	STA	65305	3536	A9 F6		LDA	# <piano3< td=""></piano3<>
3498	A9 13	AR1	LDA	#19	3538	A0 36		LDY	#>PIANO3
349A 349D	8D 03 28	DI COD4	STA	TEMP	353A	20 08 34		JSR	# <piano3 #>PIANO3 STROUT #13 TEMP</piano3
349D 34A0	AE U3 20 AO 07	DLOUPI	LDX	#7	353F	8D 03 28		STA	#13 TEMD
34A2	18		CLC		3542	A2 04	DLOOP4	LDX	#4
34A3	20 FO FF		JSR	\$FFF0	3544	AC 03 28		LDY	TEMP
34A6 34A8	A9 CB		LDA	# <string2< td=""><td>3547</td><td>20 A7 35</td><td></td><td>JSR</td><td>DRAWINDOW TEMP</td></string2<>	3547	20 A7 35		JSR	DRAWINDOW TEMP
34AA	20 08 34		JSR	STROUT	354D	18 US 20		CLC	I CIVIP
34AD	EE 03 28		INC	TEMP	354E	69 OA		ADC	#10
34B0	AD 03 28		LDA	TEMP	3550	8D 03 28		STA	TEMP
34B3 34B5	DO 56		RNE	#23 DI 00D1	3555	C9 28		BCC	#40 DLOOP4
34B7	A2 17		LDX	#23	3557	AD 5A 03		LDA	SCREEN
34B9	A0 03		LDY	#3	355A	85 04		STA	FREE0
34BB 34BC	18		CLC	&FFFA	355C	AD 5B 03		LDA	SCREEN+1
34BF	A9 FF		IDA	# <string3< td=""><td>3561</td><td>ΔO 00</td><td>DLOOP4</td><td>S IA</td><td>FREE0+1 #9</td></string3<>	3561	ΔO 00	DLOOP4	S IA	FREE0+1 #9
34C1	AO 35		LDY	#>STRING3	3563	A2 3A		LDX	#58
34C3	20 08 34		JSR	STROUT	3565	8A	PP	TXA	
34C6 34C8 34CA	A2 U3		LDX	#3.	3566	91 04		STA	(FREEO),Y
34CA	18		CLC	#1	3569	F8		INX	
3468	20 F0 FF		JSR	\$FFF0	356A	EO 56		CPX	#86
34CE	A9 10		LDA	#16	356C	D0 F7		BNE	PP
34D0 34D3	8D 03 28	חו חחסי	SIA	TEMP # <stringa< td=""><td>356E</td><td>AU 31</td><td></td><td>LDY</td><td>#49 #86</td></stringa<>	356E	AU 31		LDY	#49 #86
34D5	A0 36	DEGGEZ	LDY	#>STRING4	3572	8A	PP2	TXA	#00
34D7	20 08 34		JSR	STROUT	3573	91 04	PP2	TXA STA	(FREEO),Y
34DA	CE 03 28		DEC	TEMP	3575	C8		INY	
34DD 34DF	⊔∪ 14 Δ2 ΩΩ		I DX	ルLUUP2 #0	3577	E8 E0 58		INX	#88
34E1	AO 05		LDŶ	#5	3579	D0 F7		CPX BNE	
34E3	18		CLC		357B	AO 4B		LDY	PP2 #75
34E4 34E7	20 FO FF		JSR	\$FFF0 #_STRING?	357D	A2 59 8A	PP3	LDX	#89
34E9	AO 36		LDY	\$A45F 10,100,1000,10000, 65535 * #"{CLR}" \$FFD2 COLOR FREE0 COLOR+1 FREE0+1 #15 COMPUTER PLS1 #111 #4 #4 (FREE0),Y COLOOP FREE0+1 COLOOP #0 COMPUTER PLUS1 53280 53281 AR1 65301 65305 #19 TEMP TEMP #18 FFF0 # <string2 #*string2="" **<="" **string2="" **string3="" **string4="" **string5="" **string64="" **string66="" td=""><td>3580</td><td>91 04</td><td>rra</td><td>TXA STA</td><td>(FREEO),Y</td></string2>	3580	91 04	rra	TXA STA	(FREEO),Y
34EB	20 08 34		JSR	STROUT	3582	C8		INY	
34EE	A9 11		LDA	#17	3583	CA		DEX	

3584 3586 3588 358A	E0 57 D0 F7 A2 04 A0 00	CPX BNE LDX LDY	#87 PP3 #4 #0					3 SPACE} {DOWN} {3 LEFT}5{2 SPAC E}{2 DOWN}{6 LE FT}6666666667"
358C 358D 3590 3592 3594 3597	18 20 F0 FF A9 92 A0 37 20 08 34 A2 13	CLC JSR LDA LDY JSR LDX	\$FFF0 # <mess1 #>MESS1 STROUT #19</mess1 	371B 371C	00 9E 12 20 W	VINDOW	.BYT .ASC	0 "{YEL}{RVS} B {D OWN}{3 LEFT}C +C{DOWN}{3 LEF T} B {DOWN}{3 LEF T} S {OFF}{3 SPAC
3599 359B 359C 359F 35A1 35A3 35A6	A0 06 18 20 F0 FF A9 B2 A0 35 20 08 34 60	LDY CLC JSR LDA LDY JSR RTS	#6 \$FFFO # <string1 #>STRING1 STROUT</string1 	3737 3738	00 9E 12 DF 0	WINDOW	.BYT .ASC	E}" 0 "{YEL}{RVS}[<*>] (OFF) {RVS}\$2,00 WN}{3 LEFT} {OF F} {RVS} {DOWN} {3 LEFT}M{OFF }. (PVS) {TOWN}
35A7 35A8 35AB 35AD 35AF 35B2	18 DRAWINDOW 20 F0 FF A9 1C A0 37 4C 08 34 96 12 A9 STRING1	JSR LDA LDY JMP .ASC	\$FFF0 # <window #="">WINDOW STROUT "<-3>{RVS}_{DO WN) {2 LEFT}_{2} (SP ACE) {DOWN) {3 LE FT)_{2} (2 SPACE) {D</window>	3759 375A	00 05 12 23 G	GOODGUY	.BYT .ASC	{RVS}N(DOWN) {3 LEFT}{OFF}{<** } \(\frac{\text{E}}{\text{V}} \) 0 "{WHT} {RVS} #\$ %{DOWN} {3 LEFT} \(\frac{\text{E}}{\text{F}} \) = (100MN) {3 LEFT} \(\frac{\text{E}}{\text{F}} \) 3 LEFT} {0FF} {3 SP
35CA 35CB	00 96 12 20 STRING2	.BYT .ASC	OWN) {4 LEFT } £ { 3 SPACE } " 0 "[<3>] {RVS } {33 SP ACE } "	3775 3776	00 05 12 2C B	ADGUY	.BYT .ASC	ACE}" 0 "{WHT}{RVS},{D CWN}{3 LEFT}/01 {DOWN}{3 LEFT}2 34{DOWN}{3 LEFT }(OFF){3 SPACE}"
35EE 35EF 3615 3616	00 12 B7 B7 STRING3 00 92 A5 11 STRING4	BYT ASC BYT ASC	0 "{RVS} [<37 Y>]" 0 "{OFF}[<g>]{DOW</g>	3791 3792	00 1E 53 43 M	MESS1	.BYT .ASC	34(DOWN) {3 LEFT }{OFF} {3 SPACE}" 0 "{GRN}SCORE{ 4 DOWN} {4 LEFT}
361A 361B 3629 362A	00 B8 B8 B8 STRING5 00 96 12 3D STRING7	.BYT .ASC .BYT .ASC	N}{LEFT}" 0 "[<14 U>]" 0 "[<33]{RVS}=:{D					TIME {4 DOWN} { 4 LEFT} HIGH {4 DO WN} {4 LEFT} CARD
	35 12 35 37 mm.		OWN 2 LEFT 30 FF {RVS} = :{DOW N {2 LEFT } :> {OFF } <20 Y > "	37BC 37BD	00 05 50 52 N	MESS2	.BYT .ASC	0 "{wht}press ret urn to play agai n"
3650 365B 365C	B7 B7 B7 00 05 12 A9 PIANO1	.ASC .BYT .ASC	61112	37D8 37D9	00 11 9D 9D M	MESS3	.BYT .ASC	0 "{DOWN} {2 LEFT}
			"{WHT} {RVS}£{D OWN} {LEFT} {DO WN} {LEFT} {DOW N} {LEFT} {DOWN} {LEFT} {DOWN} {LEFT} {DOWN}	37DC ; ; scroll	00 the cards		.BYT	0
			EFT) {DOWN} {LEF T} {2 SPACE} {DOW N} {2 LEFT} {2 SPA CE}"	37DD 37DD 37E0 37E3	EE 50 03 AD 50 03 C9 05	CARDS	INC LDA CMP	INDEX INDEX #5
3677 3678	00 1F 12 20 PIANO2	.BYT .ASC	0 "{BLU} {RVS} {9 SP ACE} {DOWN} {9 LE	37E5 37E7 37E9 37EC	D0 05 A9 00 8D 50 03 AD 5A 03 N	IOMAX2	BNE LDA STA LDA	NOMAX2 #0 INDEX SCREEN
36A0	20 20 20	.ASC	FT } {9 SPACE } {DO WN} {9 LEFT }" "{9 SPACE } {DOWN } {9 LEFT } {9 SPAC E } {DOWN} {9 LEFT	37EF 37F0 37F2 37F4	18 69 82 85 04 AD 5B 03		CLC ADC STA LDA	#<386 FREE0 SCREEN+1
36C6	20 20 20	.ASC	"{9 SPACE} {2 D0 WN} {8 LEFT} {9 SP ACE} {DOWN} {9 LE	37F7 37F9 37FB 37FE 3800	69 01 85 05 20 30 2D A0 09 AD 56 03		ADC STA JSR LDY LDA	#>386 FREE0+1 ADDCOLOR #9 COMPUTER
36EC	20 20 20	.ASC	FT}" "{9 SPACE}"	3803	D0 02		BNE	SY
36F5 36F6	00 05 12 20 PIANO3	.BYT .ASC	0 "{WHT}{RVS} 5 {D OWN}{3 LEFT}{	3805 3807 3809	A9 71 91 02 S 88	SY	LDA STA DEY	#113 (TEMP0),Y

380A 380C	10 FB A0 31	BPL LDY	SY #49	38AB	95 55 95	.BYT	149,85,149,149,149,
380E	91 02 SZ	STA	(TEMPO),Y	38B3	6A 9A 6A	.BYT	85,101,169 106,154,106,170,10
3810 3811	88 CO 27	DEY CPY	#39	38BB	6C FF 7F	.BYT	6,86,85,86 108,255,127,126,25
3813 3815	D0 F9 A9 00	BNE LDA	SZ #0	38C3	OC 33 CO	.BYT	4,255,127,102 12,51,192,76,115,64
3817 381A	8D 05 28 A9 03	STA LDA	TEMP3 #3	38CB	CO 30 CO	.BYT	,127,127 192,48,192,212,17,1
381C 381F	8D 04 28 AD 50 03	STA LDA	TEMP2 INDEX	38D3	7F 7F 7F	.BYT	7,209,209 127,127,127,127,12
3822	8D 03 28	STA	TEMP				7,127,127,21
3825 3828	AE 03 28 CD1 BD 3C 03	LDX LDA	TEMP CARDS2,X	38DB	D1 D1 D5	.BYT	209,209,213,212,20 8,208,208,64
382B 382D	10 07 29 7F	BPL AND	0V1 #127	38E3	0C 00 C0	.BYT	12,0,192,12,67,0,11 5,67
382F 3832	9D 3C 03 A9 18	STA LDA	CARDS2,X #24	38EB	00 00 C0	.BYT	0,0,192,196,1,17,20 9.0
3834 3835	AA 0V1 AC 05 28	TAX LDY	TEMP3	38F3	30 40 43	.BYT	48,64,67,51,76,15,6 0,21
3838 383B	20 B3 2C AD 05 28	JSR	PUT3	38FB	D1 11 04	.BYT	209,17,4,192,208,16
383E	18	LDA CLC	TEMP3	3903	7F E7 C3	.BYT	,0,0 127,231,195,153,15
383F 3841	69 03 8D 05 28	ADC STA	#3 TEMP3	390B	FE FB F1	.BYT	3,129,153,153 254,251,241,251,23
3844 3847	EE 03 28 AD 03 28	INC LDA	TEMP TEMP	3913	FE FD FB	.BYT	9,223,191,127 254,253,251,247,22
384A 384C	C9 05 D0 05	CMP	#5 Nomax	391B	E7 C3 99	.BYT	3,143,223,127 231,195,153,153,12
384E 3850	A9 00 8D 03 28	LDA STA	#0 TEMP	3923	7F 99 93	.BYT	9,153,153,254 127,153,147,135,13
3853 3856	CE 04 28 NOMAX DO CD	DEC BNE	TEMP2 CD1	392B			5,147,153,255
3858	20 FB 2F	JSR	RAND		FE FB F1	.BYT	254,251,241,251,23 9,223,191,127
385B 385D	29 03 AA	AND TAX	#3	3933	FE FD FB	.BYT	254,253,251,247,22 3,143,223,127
385E 3861	BD 3C 03 C9 1C	LDA CMP	CARDS2,X #28	393B	FF 99 93	.BYT	255,153,147,135,13 5,147,153,254
3863 3865	F0 05 09 80	BEQ Ora	NP2 #128	3943	7F 81 9D	.BYT	127,129,157,157,15 7,149,129,251
3867 386A	9D 3C 03 60 NP2	STA RTS	CARDS2,X	394B	FE FB F1	.BYT	254,251,241,251,23 9,223,191,127
386B 3870	04 08 0C CARDS3 98 FIXCARDS	.BYT	4,8,12,16,20	3953	FE FD FB	.BYT	254,253,251,247,22
3871	48	PHA		395B	7F 81 9D	.BYT	3,143,223,127 127,129,157,157,15
3872 3873	8A 48	TXA Pha		3963	7F E1 F3	.BYT	7,149,129,251 127,225,243,243,24
3874 3876	AO 04 A9 00	LDY LDA	#4 #0	396B	FE FB F1	.BYT	3,243,179,131 254,251,241,251,23
3878 387B	99 3C 03 PUF 88	STA Dey	CARDS2,Y	3973	FE FD FB	.BYT	9,223,191,127 254,253,251,247,22
387C 387E	10 FA A0 04	BPL LDY	PUF #4	397B	7F E1 F3	.BYT	3,143,223,127 127,225,243,243,24
3880 3883	20 FB 2F PUTCARD C9 05	JSR CMP	RAND				3,243,179,131
3885	B0 F9	BCS	#5 Putcard	3983	FF 73 6D	.BYT	255,115,109,109,10 9,109,051,254
3887 3888	AA BD 3C 03	TAX LDA	CARDS2,X	398B	FE FB F1	.BYT	254,251,241,251,23 9,223,191,127
388B 388D	D0 F3 B9 6B 38	BNE LDA	PUTCARD CARDS3,Y	3993	FE FD FB	.BYT	254,253,251,247,22 3,143,223,127
3890 3893	9D 3C 03 88	sta Dey	CARDS2,X	399B	FF FF FF	.BYT	255,255,255,255,25 5,255,255,255
3894 3896	10 EA 68	BPL PLA	PUTCARD	39A3	FF 73 6D	.BYT	255,115,109,109,10 9,109,51,254
3897 3898	AA 68	TAX PLA		39AB	FF 80 80	.BYT	255,128,128,128,12
3899	A8	TAY		39B3	FF 80 80	.BYT	8,128,128,128 255,128,128,128,12
389A 389B	60 CHARDEF	RTS	*	39BB	FF 00 63	.BYT	8,128,128,128 255,0,99,247,255,25
389B	96 96 96	.BYT	150,150,150,150,15 0,150,150,150	39C3	FF 01 01	.BYT	5,255,255 255,1,1,129,129,129
38A3	96 96 96	.BYT	150,150,150,150,15 0,150,150,150				,129,129

39CB	80 84 83	.BYT	128,132,131,129,12	3B03	55 40 44	.BYT	85,64,68,68,68,64,8
39D3	FF FF FF	.BYT	9,129,129,129 255,255,255,0,34,34	3B0B	55 45 41	.BYT	5,0 85,69,65,64,68,69,8
39DB	81 91 E1	.BYT	,8,8 129,145,225,65,65,6	3B13	50 14 15	.BYT	5,0 80,20,21,21,21,20,8
39E3	81 81 80	.BYT	5,65,65 129,129,128,159,19	3B1B	15 50 51	.BYT	0,0 21,80,81,84,85,80,2
39EB	41 3E 80	.BYT	1,255,255,255 65,62,128,127,128,2	3B23	55 11 51	.BYT	1,0 85,17,81,80,17,17,8
39F3	41 41 81	.BYT	55,255,255 65,65,129,121,125,2	3B2B	55 10 11	.BYT	5,0 85,16,17,17,17,16,8
39FB	FF 80 80	.BYT	55,255,255 255,128,128,129,12	3B33	55 10 11	.BYT	5,0 85,16,17,17,17,16,8
3A03	FF 63 F7	.BYT	9,129,129,129 255,99,247,136,128,	3B3B	55 10 14	.BYT	5,0 85,16,20,20,20,20,8
3A0B	FF 01 81	.BYT	128,128,128 255,1,129,193,193,1	3B43	55 10 51	.BYT	5,0 85,16,81,81,81,80,8
3A13	91 8F 81	.BYT	93,193,193 145,143,129,129,12	3B4B	55 11 11	.BYT	5,0 85,17,17,17,17,16,8
3A1B	FF FF 00	.BYT	9,129,131,129 255,255,0,99,66,8,2	3B53	55 10 14	.BYT	5,0 85,16,20,20,20,20,8
3A23	C5 F9 41	.BYT	55,255 197,249,65,65,65,81	3B5B	51 15 55	.BYT	5,0 81,21,85,85,81,81,6
3A2B	80 9F A0	.BYT	,249,193 128,159,160,192,19	3B63	40 50 50	.BYT	4,0 64,80,80,80,86,86,2
3A33	FF 7F BE	.BYT	2,192,192,255 255,127,190,28,12,4	3B6B	00 00 00	.BYT	2,0 0,0,0,0,170,255,170,
ЗАЗВ	81 79 85	.BYT	,0,255 129,121,133,3,3,3,3,3,	3B73	00 00 00	.BYT	0,0,0,0,170,255,170,
3A43	FF FF FF	.BYT	255 255,255,255,231,23	3B7B	00 00 00	.BYT	0,0,0,0,170,255,170,
3A4B	63 B1 D8	.BYT	1,255,255,255 99,177,216,239,247,	3B83	00 00 00	.BYT	0,0,0,128,170,255,1
3A53	00 80 CO	.BYT	251,253,254 0,128,192,224,240,2	3B8B	00 00 08	.BYT	91,186 0,0,8,32,128,224,24
3A5B	1C 8E C7	.BYT	48,252,254 28,142,199,224,240,	3B93	BE BE BE	.BYT	8,254 190,190,190,190,19
3A63	E3 71 38	.BYT	248,252,254 227,113,56,31,15,7,	3B9B	B8 20 00 BE BE BE	.BYT .BYT	0,190,190,170 184,32,0,0,0,0,0,0 190,190,190,190,19
3A6B	00 00 00	.BYT	3,1 0,0,0,0,0,0,0,128	3BA3	DC DE DE	.DTI	0,190,190,170
3A73	01 00 00	.BYT	1,0,0,0,0,0,0,0	3BAB	2E 08 00	.BYT	46,8,0,0,0,0,0,0
3A7B	00 00 18	.BYT	0,0,24,60,60,60,60,1	3BB3	B8 20 00	.BYT	184,32,0,0,0,0,0,0
			26	3BBB	Be be be	.BYT	190,190,190,190,19
3A83	CO EO 70	.BYT	192,224,112,56,28,1 4,7,3	3ВС3	STACK1	=	0,190,190,170
3A8B	FF FF CO	.BYT	255,255,192,192,19 2,192,192,192	3BC3	STACK2	=	*+20
3A93	00 00 00 MOUS	.BYT	0,0,0,15,31,255,8,0	2000	CTACKO		* 1 40
3A9B	00 00 00	.BYT	0,0,0,144,248,252,3 2,0	3BC3 3BC3	STACK3 STACK4	-	*+40 *+60
3AA3	00 00 00	.BYT	0,0,0,9,31,63,4,0	3BC3	STACK5	=	*+80
3AAB	00 00 00	BYT	0,0,0,240,248,255,1 6.0	0000	·		. 00
3AB3 3ABB	00 00 08 NEWDEF 00 00 00	.BYT .BYT	0,0,8,2,2,11,47,191 0,0,0,2,170,255,254,				
3AC3	00 00 00	.BYT	174 0,0,0,0,170,255,170,				
3ACB	00 00 00	.BYT	0 0,0,0,0,170,255,170,				
3AD3	00 00 00	.BYT	0 0,0,0,0,170,254,170,				
3ADB	14 15 15	.BYT	0 20,21,21,21,85,84,8				
3AE3	55 40 45	.BYT	0,0 85,64,69,81,84,64,2				
3AEB	55 51 44	.BYT	1,0 85,81,68,64,68,68,8				
3AF3	55 45 45	BYT	5,0 85,69,69,69,69,64,8				
			5,0				
3AFB	55 40 44	.BYT	85,64,68,68,68,64,8 5,0				

Prisonball

Source code by Kevin Mykytyn

0801			•=	2049	0847	AD FC 02		LDA	BALLH
:				2010	084A	8D FB 02		STA	BALLL
; priso	n bail				084D	20 C3 OB	1	JSR	MOVBALLS
;					0850	20 9B 09		JSR	COLLISION
0801		DELX	=	703	0853	20 E1 FF	NOBALL	JSR	\$FFE1
0801		DELY	=	711	0856	D0 D9		BNE	MAIN
0801		XPOS	=	719	0858	AD 00 D		LDA	\$DC00
0801		XPOSH	=	727	085B	2D 01 D0	;	AND	\$DC01
0801		YPOS	=	735 743	085E 0860	29 10		AND	#16
0801 0801		YPOSL XPOSL	=	743 751	0862	D0 F6 4C 31 08		BNE	WTBT
0801		HIGHX1	=	760	. 0002	40 31 00		JMP	MAIN
0801		HIGHX2	_	761	the o	ame is over	,		
0801		HIGHY	_	762	; uio y	ianie is ove			
0801		BALLL	=	763	0865		GAMEOVER	=	
0801		BALLH	==	764	0865	AD 00 D0	DEBOUNCE	LDA	56320
0801		JOYL	=	765	0868	2D 01 D0	}	AND	56321
0801		JOYH	_	766	086B	29 1F		AND	#31
0801		MSB	=	2	086D	C9 1F		CMP	#31
0801		TEMP	=	6	086F	D0 F4		BNE	DEBOUNCE
0801		TOPLIMIT	=	59	0871	A9 B0		LDA	#176
0801		BOTLIMIT	=	220	0873	8D 14 04		STA	1044
0801		TOP	_	49	0876	8D 16 04		STA	1046
0801		BOT	=	229	0879	8D 17 04		STA	1047
0801		LEFT	=	20	087C	A9 03		LDA	#3
0801		RIGHT	=	68	087E	8D 15 D0)	STA	53269
0801		TOPEDGE	=	87	0881	A2 18		LDX	#24
0801 0801		BOTEDGE	=	190 0	0883 0885	AO OC		LDY	#12
0801		Border Backgroun	=	11	0886	18 20 F0 FF		CLC JSR	ecco
0801		WALLCOLOR	_	15	0889	A9 7F		LDA	\$FFF0
0801		FREE0	_	251	088B	AO OF		LDY	# <mess3 #>MESS3</mess3
0801		COLORO	_	253	088D	20 1E AB	t .	JSR	\$AB1E
0801		COLOR	=	249	0890	78	,	SEI	ψ ADIL
0801		PFLAG	=	247	0891	A9 00		LDA	#0
0801		LEFTPAD	=	27	0893	85 C6		STA	198
0801		RIGHTPAD	=	61	0895 0898	AD 00 D0	WTBUT	LDA	56320
0801	FF FF OA		.BYTE	255,255,10,0,158	0898	2D 01 D0	;	AND	56321
0806	32 30 36		.asc	"2061"	089B	29 10		and	#16
080A	00 00 00		.BYTE	0,0,0	089D	FO OB		BEQ	Joyplay
080D	A9 00	BEGIN	LDA	#0	089F	AD 00: DO	;	LDA	56320
080F	8D BA OF		STA	FLAG	08A2	C9 7F		CMP	#127
0812 0812	20 E4 0D	START	=	· OCTODDITE	08A4	FO EF		BEQ	WTBUT
0815	20 E4 0D 20 BB 0A		JSR	SETSPRITE	08A6 08A8	A9 00		LDA	#0
0818	20 GA OD		JSR JSR	INIT	OBAB OBAA	F0 02 A9 01	JOYPLAY	BEQ	STORIT
081B	20 16 0E		JSR	SETRAST SETPOS	OBAC	85 F7	STORIT	LDA STA	#1 PFLAG
081E	20 39 OE		JSR	SETSCREEN	08AE	0A F/	SIUNII	ASL	PPLAG
0821	20 3F 09		JSR	SCROUT	08AF	0A		ASL	
0824	AD BA OF		LDA	FLAG	08B0	OA		ASL	
0827	D0 08		BNE	MAIN	08B1	18		CLC	
0829	A9 01		LDA	#1	08B2	69 08		ADC	#8
082B	8D BA OF		STA	FLAG	08B4	8D FB 02		STA	BALLL
082E	4C 65 08		JMP	GAMEOVER	08B7	8D FC 02		STA	BALLH
0831	CE FD 02	MAIN	DEC	JOYL	08BA	58		CLI	
0834	DO OC		BNE	NOJOY	08BB	4C 12 08		JMP	START
0836	AD FE 02		LDA	JOYH	;				
0839	8D FD 02		STA	JOYL	; decre	ment the ti	mer		
083C	20 E9 0C		JSR	JOYSTICK	;		TIOI		
083F 0842	20 BE 08 CE FB 02	NO IOV	JSR	TICK	08BE	AE A9	TICK	=	160
0845	DO OC	NOJUT	DEC BNE	BALLL NOBALL	08BE 08C0	A5 A2 C9 3C		LDA	162
0010	PO 00		DIVE	HOUALL	0000	09 30		CMP	#60

08C2	D0 37	BNE	N1 #0 162 1047 #176 ZU1 1047 N1 #185 1047 1046 #176 Z2 1046 N1 #181 1046 1044 #176 NDONE	; output	a number			
08C4	A9 00	LDA	#0	,		MUNAOUT	_	
08C6 08C8	85 A2 AD 17 04	SIA	162 1047	0956 0056	8C B9 OF	NUMOUT	STY	INDEX
08CB	C9 B0	CMP	#176	0959	86 FB		STX	FREEO
08CD	FO 06	BEQ	ZU1	095B	85 FC		STA	FREE0+1
08CF	CE 17 04	DEC	1047	095D	A2 08		LDX LDY	#8
08D2	4C FB 08	JMP	N1	095F	AO FF	NUMLOOP1	LDY	#255
08D5	A9 B9 ZU1	LDA	#185	0961	C8	SUBAGAIN	iny LDA	FREE0
08D7 08DA	8D 17 U4	SIA	1047	0902	A5 FB		PHA	rneeu
08DD	C9 B0	CMP	#176	0965	38		SEC	
08DF	FO 06	BEQ	ŽŽ	0966	FD 91 09		SBC	DIGITS,X
08E1	CE 16 04	DEC	1046	0969	85 FB		STA	FREE0
08E4	4C FB 08	JMP	N1	096B	A5 FC		LDA	FREE0+1
08E7	A9 B5 Z2	LUA	#181	0960	48 ED 02 00		PHA	DICITE ± 1 V
08E9 08EC	8D 10 U4 AD 14 O4	O IA	1040 1044	090E	85 FC		STA	FRFF0+1
08EF	C9 B0	CMP	#176	0973	90 05		BCC	DONESUB
08F1	DO 05	BNE	NDONE	0975	68		PLA	
08F3 08F4	68	PLA		0976	68		PLA	
08F4	68	PLA		0977	4C 61 09	DONECLIB	JMP	SUBAGAIN
08F5 08F8	40 65 08	JIMP	GAMEUVER 1044	09/A	85 EC	DOMESOR	PLA STA	EREEN.+1
08FB	OE 14 04 NOUNE AD 14 04 N1	I DA	1044	097D 097D	68		PIA	THELOT
08FE	C9 B0	CMP	#176	097E	85 FB		STA	FREE0
0900	DO 12	BNE	REGCOL	0980	98		TYA	
0902	AD 16 04	LDA	1046	0981	09 B0		ORA	#176
0905	C9 B2	CMP	#178	0983	AC B9 UF		LDY	INDEX 1024 V
0907 0909	DU UB	RIVE	HEGGUL 1047	0980	99 UU U4		INC	IU24,1 INDEX
090C	C9 R0	CMP	#176	0909 098C	CA CA		DEX	INDEX
090E	D0 04	BNE	REGCOL	098D	CA		DEX	
0910	EE 20 D0	INC	53280	098E	10 CF		BPL	NUMLOOP1
0913	60	RTS		0990	60	DIGITO	RTS	4 40 400 4000 400
	AO NO RECONI							
0914	45 00 ILLUOUL	CTA	#U 53000	0991	01 00 04	Dialio	.wonu	1,10,100,1000,100
0916	8D 20 D0	STA	53280		01 00 04	Didiro	.wonu	00
į,	DO 37 A9 00 85 A2 AD 17 04 C9 B0 F0 06 CE 17 04 AD 18 04 AD 18 04 CF B 08 AD 16 04 AD 16 04 CF B 08 AD 17 04 CF B 08 AD 18 04 AD 18 04 AD 18 04 AD 18 04 AD 19 04 AD 1	STA RTS		; ; collisi	ion	Didito	.vvonu	FREEO DIGITS,X FREEO FREEO+1 DIGITS+1,X FREEO+1 DONESUB SUBAGAIN FREEO+1 FREEO #176 INDEX 1024,Y INDEX NUMLOOP1 1,10,100,1000,100 00
į,	n the score			; collisi	on	COLLISION	.wonu	00
add 1	n the score			; collisi ; 099B 099B	on A2 04	COLLISION	.wonb	00 *
add 1	n the score			; collisi ; collisi ; 099B 099B 099D	on A2 04 86 06	COLLISION COLL1	= LDX STX	#4 TEMP
091A 091A 091C	n the score			; collisi ; collisi ; 099B 099B 099D 099F	on A2 04 86 06 BD DF 02	COLLISION COLL1	E LDX STX LDA	. #4
091A 091A 091C 091F	n the score			; collisi ; collisi ; 099B 099B 099D 099F 09A2	A2 04 86 06 BD DF 02	COLLISION COLL1	LDX STX LDA SEC	#4 TEMP YPOS,X
91A 091A 091C 091F 0921	n the score			; collisi ; collisi ; 099B 099B 099D 099F 09A2 09A3	A2 04 86 06 BD DF 02 38 E9 2A	COLLISION COLL1	LDX STX LDA SEC SBC	#4 TEMP YPOS,X #42
91A 091A 091C 091F 0921	n the score			; collisi ; collisi ; 099B 099B 099D 099F 09A2 09A3 09A5	A2 04 86 06 BD DF 02 38 E9 2A 29 F8	COLLISION COLL1	LDX STX LDA SEC SBC AND PHA	#4 TEMP YPOS,X
91A 091A 091C 091F 0921 0923 0925	n the score			; collisi ; collisi ; 099B 099B 099D 099F 09A2 09A3 09A5 09A7	A2 04 86 06 BD DF 02 38 E9 2A 29 F8 48 85 FB	COLLISION COLL1	LDX STX LDA SEC SBC AND PHA STA	#4 TEMP YPOS,X #42
91A 091A 091C 091F 0921 0923 0925 0926 0929	n the score			; collisi : 099B 099B 099D 099F 09A2 09A3 09A5 09A7 09A8	A2 04 86 06 BD DF 02 38 E9 2A 29 F8 48 85 FB A9 00	COLLISION COLL1	LDX STX LDA SEC SBC AND PHA STA LDA	• #4 TEMP YPOS,X #42 #248 FREE0 #0
91A 91C 91F 921 923 925 926 929 92C	n the score			; collisi : 099B 099B 099D 099F 09A2 09A3 09A5 09A7 09A8 09AA	A2 04 86 06 BD DF 02 38 E9 2A 29 F8 48 85 FB A9 00 85 FC	COLLISION COLL1	LDX STX LDA SEC SBC AND PHA STA LDA STA	• #4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1
91A 091A 091C 091F 0921 0923 0925 0926 0929 092C	n the score			;; collisi;; 099B 099B 099B 099F 09A2 09A3 09A5 09A7 09A8 09AA	A2 04 86 06 BD DF 02 38 E9 2A 29 F8 48 85 FB 85 FC 06 FB	COLLISION COLL1	LDX STX LDA SEC SBC AND PHA STA LDA STA ASL	#4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0+1
91A 991A 991C 991F 9921 9923 9925 9926 9929 992C 992D 9930	n the score			;; collisi;; 099B 099B 099B 099P 09A2 09A3 09A5 09A7 09A8 09AC 09AE 09B2	A2 04 86 06 8D DF 02 38 24 29 2A 29 2A 29 5F 85 FB 06 FB 06 FB	COLLISION COLL1	LDX STX LDA SEC SBC AND PHA STA LDA STA ASL ROL ASL	• #4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0
91A 991A 991C 991F 9921 9925 9926 9929 992C 992D 9930 9933	n the score			; collisi ; collisi ; 099B 099B 099B 099B 09A3 09A5 09A7 09A8 09AC 09AC 09B0 09B2 09B2	A2 04 86 06 BD DF 02 38 E9 2A 29 F8 85 FB A9 00 66 FB 26 FC 06 FB	COLLISION COLL1	LDX STX LDA SEC SBC AND PHA STA LDA STA ASL ROL ASL ROL	#4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0+1
91A 991A 991C 991F 9921 9925 9926 9929 992C 992D 9930 9936 9938	n the score			;; collisi; ; collisi; ; 099B 099B 099D 099F 09A3 09A5 09A7 09A8 09AC 09AC 09B0 09B2 09B4 09B4	on A2 04 86 06 8BD DF 02 38 48 85 FB 85 FF B6 66 FC 06 FB 26 FC 68	COLLISION COLL1	LDX STX LDA SEC AND PHA STA LDA STA ASL ROL ASL ROL PLA	• #4 TEMP YPOS,X #42 #248 FREE0 FREE0+1 FREE0+1 FREE0+1
91A 991A 991C 991F 9921 9923 9925 9926 9920 9920 9920 9930 9933 9938 9938	ADDSCORE A6 06 BD 27 D0 29 0F C9 03 F0 19 AA AC B8 0F B9 4E 0F 18 7D B4 0F BD B6 0F 69 00 9D B6 0F 20 3F 09	LDX LDA AND CMP BEQ TAX LDY LDA CLC ADC STA LDA ADC STA ADC STA		;; collisi; ; collisi; ; 099B 099B 099B 09A2 09A3 09A5 09A6 09A6 09B0 09B2 09B6 09B6	A2 04 86 06 BD DF 02 38 48 5 FB 48 5 FC 06 FB 26 FC 06 FB 26 FC 68	COLLISION COLL1	LDX STX LDA SEC SBC AND PHA STA LDA ASL ROL ASL ROL ASL CLC	* #4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0 FREE0+1 FREE0+1
91A 991A 991C 991F 9921 9925 9926 9929 992C 992D 9930 9936 9938			TEMP 53287,X #15 #3 NSC SCORED SCORES,Y SCOREIL,X SCOREIL,X SCOREIH,X #0 SCOREIH,X SCOROUT	; collisi ; collisi ; 099B 099B 099B 099F 09A2 09A5 09A5 09A6 09AC 09AC 09B0 09B2 09B4 09B6 09B7 09B8	A2 04 86 06 BD DF 02 38 2A 85 FB 85 FC 06 FB 26 FC 68 BB 65 FB 65	COLLISION COLL1	LDX SEC SBC AND PHA STA ASL ROL ASL ROL ACLC ADC	#4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0+1 FREE0+1 FREE0+1 FREE0+1 FREE0+1
91A 091A 091F 0921 0923 0925 0926 0929 092C 092D 0933 0936 0938 0938	ADDSCORE A6 06 BD 27 D0 29 0F C9 03 F0 19 AA AC B8 0F B9 4E 0F 18 7D B4 0F 9D B4 0F 9D B4 0F 9D B4 0F 9D B6 0F 69 00 9D B6 0F 20 3F 09 NSC	E LDX LDA AND CMP BEQ TAX LDY LDA CLC ADC STA ADC STA JSR RTS	TEMP 53287,X #15 #3 NSC SCORED SCORES,Y SCORE1L,X SCORE1L,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X	; collisi; ; collisi; ; 099B 099B 099F 09A2 09A3 09A5 09A7 09A8 09AC 09B2 09B4 09B6 09B8 09B8 09B8	A2 04 68 69 DF 02 38 89 PF 88 85 FF 68 FF 68 85	COLLISION COLL1	LDX STX LDA SEC SBC AND PHA STA ASL ROL ASL ROL PLC STA ADC STA	#4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1
91A 091A 091F 0921 0923 0925 0926 0929 092C 092D 0933 0936 0938 0938	ADDSCORE A6 06 BD 27 D0 29 0F C9 03 F0 19 AA AC B8 0F B9 4E 0F 18 7D B4 0F 9D B4 0F 9D B4 0F 9D B4 0F 9D B6 0F 69 00 9D B6 0F 20 3F 09 NSC	E LDX LDA AND CMP BEQ TAX LDY LDA CLC ADC STA ADC STA JSR RTS	TEMP 53287,X #15 #3 NSC SCORED SCORES,Y SCORE1L,X SCORE1L,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X	; collisi ; coll	on A2 04 86 06 02 29 F8 48 FB 00 C2 66 FC 68 85 FF C6 85	COLLISION COLL1	LDX STX LDA SEC AND PHA STA LDA STA ASL ROL ASL ADC STA ADC	* #4 TEMP TYPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1
91A 091A 091C 091F 0921 0925 0926 0929 092C 092D 0930 0938 0938 0938	ADDSCORE A6 06 BD 27 D0 29 0F C9 03 F0 19 AA AC B8 0F B9 4E 0F 18 7D B4 0F 9D B4 0F 9D B4 0F 9D B4 0F 9D B6 0F 69 00 9D B6 0F 20 3F 09 NSC	E LDX LDA AND CMP BEQ TAX LDY LDA CLC ADC STA ADC STA JSR RTS	TEMP 53287,X #15 #3 NSC SCORED SCORES,Y SCORE1L,X SCORE1L,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X	; collisi; c	On A2 04 86 06 8BD DF 02 88 48 BB DF 05 29 F8 48 FF 00 65 FF 06 FF 06 68 FF	COLLISION COLL1	LDX STX LDA SEC AND PHA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA	*#4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1
add 1 911A 091A 091C 091F 0923 0925 0926 0929 0920 0930 0933 0936 0938 0938 0938	ADDSCORE A6 06 BD 27 D0 29 0F C9 03 F0 19 AA AC B8 0F B9 4E 0F 18 7D B4 0F 9D B4 0F 9D B4 0F 9D B4 0F 9D B6 0F 69 00 9D B6 0F 20 3F 09 NSC	E LDX LDA AND CMP BEQ TAX LDY LDA CLC ADC STA ADC STA JSR RTS	TEMP 53287,X #15 #3 NSC SCORED SCORES,Y SCORE1L,X SCORE1L,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X	; collisi ; collisi ; 999B 099B 099B 099F 09A2 09A5 09A7 09A6 09B0 09B0 09B0 09B6 09B7 09B6 09BC 09BC 09BC	On A2 04 86 06 BD DF 02 38 48 FB 29 FC 29 FB 48 59 00 66 FB C26 FC 68 68 FB C5 FC 06 FB C5 FC 07 02 68 FB C5 FC 07 02 68 FB C5 FC 07 02 68 FB	COLLISION COLL1	LDX STX LDA SEC SBC AND PHA STA LDA STA ASL ROL ASL ROL ADC STA LDA ADC STA LDA	*#4 TEMP YPOS,X #42 #248 FREE0 +1 FREE0 +1 FREE0 +1 FREE0 FREE0 +1 FREE0 FREE0 +1 #0 FREE0 +1 #0 FREE0 +1 #0 FREE0 +1 #0 FREE0 +1 XPOSH,X
add 1 911A 091A 091C 091F 0921 0925 0926 0929 0920 0930 0938 0938 0938 0938 0938	ADDSCORE A6 06 BD 27 D0 29 0F C9 03 F0 19 AA AC B8 0F B9 4E 0F 18 7D B4 0F 9D B4 0F 9D B4 0F 9D B4 0F 9D B6 0F 69 00 9D B6 0F 20 3F 09 NSC	E LDX LDA AND CMP BEQ TAX LDY LDA CLC ADC STA ADC STA JSR RTS	TEMP 53287,X #15 #3 NSC SCORED SCORES,Y SCORE1L,X SCORE1L,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X	; collisi ; collisi ; 999B 099B 099F 09A2 09A5 09A7 09A6 09AC 09AB4 09B6 09B7 09B8 09B6 09B7 09B8 09BC 09BC 09BC	00 A2 04 86 06 BD DF 02 38 2A 85 FC BB DF C 70 26 FB C 68 BD DF 07 07 08 BD DF 07 08 BD DF 07 08 BB DF	COLLISION COLL1	LDX STX LDA SEC AND PHA STA LDA STA ASL ROL ASL ADC ADC STA ADC STA ADC STA	#4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0+1 FREE0+1 FREE0+1 FREE0+1 FREE0+1 FREE0+1 FREE0+1 FREE0+1
add 1 ; 91A 091A 091C 091F 0921 0925 0925 0929 0920 0930 0933 0938 0938 0938 0938 0938	ADDSCORE A6 06 BD 27 D0 29 0F C9 03 F0 19 AA AC B8 0F B9 4E 0F 18 7D B4 0F 9D B4 0F 9D B4 0F 9D B4 0F 9D B6 0F 69 00 9D B6 0F 20 3F 09 NSC	E LDX LDA AND CMP BEQ TAX LDY LDA CLC ADC STA ADC STA JSR RTS	TEMP 53287,X #15 #3 NSC SCORED SCORES,Y SCORE1L,X SCORE1L,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X	; collisi;	on A2 04 66 66 02 22 88 A9 00 C 67 68 67 C 68 68 FF C 6	COLLISION COLL1	LDX STX LDA SEC AND PHA STA LDA STA ASL ROL PLA CLC STA ADC STA LDA STA LDA STA LDA	*#4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0+1 FREE0 FREE0+1 FREEN+1 FREE
add 1 ; 091A 091C 091F 0921 0925 0925 0929 092C 0920 0933 0936 0938 0938 0938 0938 0938	ADDSCORE A6 06 BD 27 D0 29 0F C9 03 F0 19 AA AC B8 0F B9 4E 0F 18 7D B4 0F 9D B4 0F 9D B4 0F 9D B4 0F 9D B6 0F 69 00 9D B6 0F 20 3F 09 NSC	E LDX LDA AND CMP BEQ TAX LDY LDA CLC ADC STA ADC STA JSR RTS	TEMP 53287,X #15 #3 NSC SCORED SCORES,Y SCORE1L,X SCORE1L,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X	; collist; ; collist;	ON A2 046 FB 02 A8 BD DF 12 A8 BB DF 12 A8 BB 05 FC BF C 06 FB C 06 BB DF C 07 07 07 07 07 07 07 07 07 07 07 07 07	COLLISION COLL1	LDX SEC SEC SEC AND PHA STA ASIL PLA CLD STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA	#4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 XPOS,X COLORO #3
add 1 ; add 1 ; 091A 091C 091F 092B 092B 092B 092C 092D 0930 0933 0938 093B 093B 093F 0944 0947 0944	ADDSCORE A6 06 BD 27 D0 29 0F C9 03 F0 19 AA AC B8 0F B9 4E 0F 18 7D B4 0F 9D B4 0F 9D B4 0F 9D B4 0F 9D B6 0F 69 00 9D B6 0F 20 3F 09 NSC	E LDX LDA AND CMP BEQ TAX LDY LDA CLC ADC STA ADC STA JSR RTS	TEMP 53287,X #15 #3 NSC SCORED SCORES,Y SCORE1L,X SCORE1L,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X	; collist; ; collist;	ON A2 046 BD CF 02 88 BD CF 02 88 BD CF	COLLISION COLL1	LDX STX LDA SEC SAND PHA STA STA ASIL ROL ADA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA ROL STA ROL STA ROL STA ROL STA LDA STA ROL STA LDA	*#4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 #0 FREE0+1 XPOSH,X COLORO+1 XPOS,X COLORO #3 COLORO+1
add 1 ; add 1 ; 91A 091C 091F 0921 0925 0925 0929 0920 0930 0933 0936 0938 0938 0938 0938 0938 0937 0941 0947 0944	ADDSCORE A6 06 BD 27 D0 29 0F C9 03 F0 19 AA AC B8 0F B9 4E 0F 18 7D B4 0F 9D B4 0F 9D B4 0F 9D B4 0F 9D B6 0F 69 00 9D B6 0F 20 3F 09 NSC	E LDX LDA AND CMP BEQ TAX LDY LDA CLC ADC STA ADC STA JSR RTS	TEMP 53287,X #15 #3 NSC SCORED SCORES,Y SCORE1L,X SCORE1L,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X SCORE1H,X	; collisi; ; collisi;	ON A2 046 FD 28 BD 75 FD 76 FD	COLLISION COLL1	LDX STX LDA SEC SBC SBC PHA STA LDA ASL LDA ASL LDA ADC STA LDA LDA LDA LDA LDA ROLL STA LDA ROLL STA LDY ROR ROR	#4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 XPOS,X COLORO #3
add 1	ADDSCORE A6 06 BD 27 D0 29 0F C9 03 F0 19 AA AC B8 0F B9 4E 0F 18 7D B4 0F 9D B4 0F 9D B4 0F 9D B4 0F 9D B6 0F 69 00 9D B6 0F 20 3F 09 NSC	E LDX LDA AND CMP BEQ TAX LDY LDA CLC ADC STA ADC STA JSR RTS	TEMP 53287,X #15 #3 NSC SCORED SCORES,Y SCORE1L,X SCORE1L,X SCORE1H,X 90 SCORE1H,X SCORE1H,X SCORE1H,X	; collist; ; collist;	ON A2 046 FB C C C C C C C C C C C C C C C C C C	COLLISION COLL1	LDX SEC	#4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 XPOS,X COLORO #3 COLORO+1 COLORO
add 1 ; add 1 ; 91A 091C 091F 0921 0925 0925 0929 0920 0930 0933 0936 0938 0938 0938 0938 0938 0937 0941 0947 0944	ADDSCORE A6 06 BD 27 D0 29 0F C9 03 F0 19 AA BB 0F B9 4E 0F 18 TD B4 0F BD B6 0F BD B6 0F 20 3F 09 60 NSC	E LDX LDA AND CMP BEQ TAX LDY LDA CLC ADC STA ADC STA JSR RTS	TEMP 53287,X #15 #3 NSC SCORED SCORES,Y SCORE1L,X SCORE1L,X SCORE1H,X 90 SCORE1H,X SCORE1H,X SCORE1H,X	; collisi; ; collisi;	ON A2 046 FD 28 BD 75 FD 76 FD	COLLISION COLL1	LDX STX LDA SEC SBC SBC PHA STA LDA ASL LDA ASL LDA ADC STA LDA LDA LDA LDA LDA ROLL STA LDA ROLL STA LDY ROR ROR	*#4 TEMP YPOS,X #42 #248 FREE0 #0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 FREE0 FREE0+1 #0 FREE0+1 XPOSH,X COLORO+1 XPOS,X COLORO #3 COLORO+1

09D7	38	SEC		0A63 20 65 0C JSR REVX
09D8	E9 02	SBC	#2	0A66 4C 6B 0A JMP NEXT
09DA	85 FD	STA	COLORO	OA69 A6 O6 NOG LDX TEMP
09DC	A5 FE	LDA	COLOR0+1	OA6B CA NEXT DEX
09DE	E9 00	SBC	#0	0A6C E0 01 CPX #1
09E0	85 FE	STA	COLORO+1	OAGE FO 03 BEQ FINCOLL
09E2 09E4	A5 FB 18	LDA	FREE0	0A70 4C 9D 09 JMP COLL1
09E5	65 FD	CLC ADC	COLORO	0A73 60 FINCOLL RTS
09E7	85 FB	STA	FREEO	; click sound
09E9	A5 FC	LDA	FREEO+1	, olok sould
09EB	65 FE	ADC	COLORO+1	0A74 CLICK = * 0A74 48 PHA
09ED	85 FC	STA	FREEO+1	0A74 48 PHA
09EF	A5 FC	LDA	FREE0+1	0A75 8A TXA
09F1 09F2	18	CLC		0A76 38 SEC
09F2	69 D8	ADC	#\$D8	0A77 E9 02 SBC #2
09F4 09F6	85 FC A0 00	STA LDY	PREEUT I	0A79 A8 TAY 0A7A B9 B8 0A LDA SEVENS,Y
09F8	B1 FB	LDA	#U (EREE(I) V	0A7A B9 B8 0A LDA SEVENS,Y 0A7D A8 TAY
09FA	29 OF	AND	#\$D8 FREE0+1 #0 (FREE0),Y #15 #3	0A7E A9 1E LDA #30
09FC	A2 03	LDX	#3	0A7E A9 1E LDA #30 0A80 99 01 D4 STA 54273,Y
09FE	CA COMP	DEX		0A83 A9 11 LDA #17
09FF	30 68	BMI	NOG	OA85 99 05 D4 STA 54277,Y
0A01	DD 40 OF	CMP	COLORS,X	OA88 A9 80 LDA #128
0A04	D0 F8	BNE	COMP	0A8A 99 04 D4 STA 54276,Y
0A06	8E B8 0F	STX	SCORED	0A8D A9 81 LDA #129
0A09 0A0B	A5 FC 38	LDA	FREEU+1	0A8F 99 04 D4 STA 54276,Y
0A0B	50 E9 D4	SEC SBC STA	#0 (FREEO),Y #15 #3 NOG COLORS,X COMP SCORED FREEO+1 #\$D4 FREEO+1	0A92 68 PLA 0A93 60 RTS
OACE	85 FC	STA	#\$D4 FREE0+1 (FREE0),Y	0A93 00 N13
0A10	B1 FB	IDA	(FREEO) Y	hong sound
0A12	A2 03	LDA LDX	#3	; bong count
0A14	CA COMP2	LDX DEX BMI CMP BNE TYA		OA94 BONG = *
0A15	30 52	BMI	NOG BRICKS,X COMP2	0A94 48 PHA
0A17	DD 45 OF	CMP	BRICKS,X	0A95 8A TXA
OA1A	D0 F8	BNE	COMP2	0A96 38 SEC
0A1C 0A1D	8A 0A	TXA ASL		0A97 E9 02 SBC #2 0A99 A8 TAY
OA1E	A8	TAY		OA99 A8 TAY OA9A B9 B8 OA LDA SEVENS,Y
0A1F	A6 06	ĽĎX	TEMP	OA9D A8 TAY
0A21	A5 FD	LDA	COLORO	0A9E 68 PLA
0A23	38	SEC		0A9F 0A ASL
0A24	E9 OB	SEC SBC	#11	OAAO OA ASL
0A26	4A	LSR		QAA1 OA ASL
0A27	4A	LSR		OAA2 18 CLC
0A28 0A2B	DD 96 OF	CMP BEQ	SAVL,X	0AA3 69 0A ADC #10
OA2D	FO 3C 9D 96 OF	STA	NUG CM/I Y	0AA5 99 01 D4 STA 54273,Y 0AA8 A9 13 LDA #19
0A30	BD BE 02 GOON	IDA	DFI X X	0AA8 A9 13 LDA #19 0AAA 99 05 D4 STA 54277,Y
0A33	10 01	BPL	CNE	0AAD A0 90 1DA 4490
0A35	C8	INY		OAAF 99 04 D4 STA 54276,Y
0A36	FO 3C 90 98 OF 90 98 OF 90 98 OF 90 98 OF 90 90 OF 90 90 90 90 90 90 90 90 90 90 90 90 90	LDA	RESULTBRICK,Y #0 (FREE0),Y CLICK	OAB2 A9 21 LDA #33
0A39	A0 00	LDY	#0	QAB4 99 04 D4 STA 54276,Y
0A3B	91 FB	STA	(FREEO),Y	0AB7 60 RTS
0A3D 0A40	20 74 UA	JSR CMP	#32	0AB8 00 07 0E SEVENS .BYTE 0,7,14
0A40	DO 14	BNE	#JZ NOCOLINT	; initialize
0A44	A5 FD	LDA	NOCOUNT COLORO	, unualiza
0A46	38	SEC	0000110	OABB INIT = *
0A47	91 FB 20 74 0A C9 20 TA A5 FD 38 E9 0B 4A 4A AA FE AA 0F BD AA 0F BD AA 0F BD AA 0F BD AA 0F	SBC	#11	OABB A9 00 LDA #0
0A49	4A	I CD		OABD A0 17 LDY #23
OA4A	4A	LSR		OABF 99 00 D4 CLSID STA 54272,Y
0A4B	AA SS 44 05	TAX		0AC2 88 DEY
OA4C OA4F	PD AA OF	INC	COUNTERS,X	OAC3 10 FA BPL CLSID
0A4F 0A52	CO OF	LDA CMP	COUNTERS,X #46	0AC5 A9 0F LDA #15
0A54	DO 08	BNE	#46 NOCOUNT	0AC7 8D 18 D4 STA 54296 0ACA A9 FF LDA #255
0A56	A9 00	LDA	#0	0ACC 8D 0F D4 STA 54287
0A58	9D AA OF	STA	COUNTERS,X	0ACF A9 80 LDA #128
0A5B	20 9C 0C	JSR	DRAWBAR	0AD1 8D 12 D4 STA 54290
0A5E	20 1A 09 NOCOUNT	JSR	ADDSCORE	0AD4 A9 14 LDA #20
0A61	A6 06	LDX	TEMP	OABB INIT - * OABB A9 00 LDA #0 OABD A0 17 LDY #23 OABF 99 00 D4 CLSID STA 54272,Y OAC2 88 DEY OAC3 10 FA BPL CLSID OAC5 A9 0F LDA #15 OAC7 80 18 D4 STA 54296 OACA A9 FF LDA #255 OACC 8D F D4 STA 54287 OACF A9 80 LDA #128 OACF A9 80 LDA #128 OAD4 A9 14 LDA #20 OAD4 A9 14 LDA #20 OAD6 8D FD 02 STA JOYL

0AD9 8D FE 02	STA	JOYH	0B69	BD BF 02 RIPAD 30 FA BD CF 02 C9 3D FO 04 C9 13 D0 EF AD E0 02 MAYBE2 38 FD DF 02 C9 F5 B0 04 C9 0F B0 E0 20 9C 0B HITPAD2 A9 00 90 27 D0 20 94 0A A9 14 NOY 90 0F 20 65 0C	LDA	DELX,X
0ADC A9 00	LDA			30 FA	RMI	NOTLEFT
0ADE 85 A2	STA	160	ODGE	BD CE VA	LDA	XPOS,X
		44	0001	00 30	CMD	#RIGHTPAD
0AE0 00 AA 0E 74	LUT	#4	0071	C9 3D	CIVIP	
0AE2 99 AA 0F Z1	SIA	COUNTERS,Y	08/3	FU 04	BEQ	MAYBE2
OAEO AO 04 OAE2 99 AA 0F Z1 OAE5 99 B4 0F OAE8 88	STA STA	#0 162 #4 COUNTERS,Y SCORE1L,Y Z1 #2 #75 \$D41B NOD #180	0B75	C9 13	CMP	#RIGHTPAD-42
0AE8 88	DEY		0B77	DO EF	BNE	NOTLEFT
0AE9 10 F7	BPL	Z1	0B79	AD EO O2 MAYBE2	LDA	YPOS+1
0AEB A0 02	LDY	#2	OB7C	38	SEC	
OAED A2 4B WP	LDX	#75	0B7D	FD DF 02	SRC	YPOS,X
OAEF AD 1B D4	LDA	\$DA1B	OBRO	CO E5	CMD	#245
0AF2 10 02	BPL	NOD	0000	DO 10	DCC	HITPAD2
	LDX	#400	0002	00.05	DUO	
UAFA AZ D4	LUX	#100	UB04	C9 UF	LIVIP	#15
OAF4 A2 B4 NOD OAF7 99 C1 02 OAFA A9 06 OAFC 99 98 0F OAFF 88 OB00 10 EB OB02 60 ;	TXA STA LDA	DELX+2,Y #6 SAVL+2,Y WP	0B86 0B88 0B8B 0B8D 0B90 0B93 0B95	BO FO	RCS	NOTLEFT
OAF7 99 C1 02	STA	DELX+2,Y	0888	20 9C OB HITPAD2	JSR	NEWY
OAFA A9 06 OAFC 99 98 0F	LDA	#6	OB8B	A9 00	LDA	#0
OAFC 99 98 OF	STA	SAVL+2,Y	OB8D	9D 27 D0	STA	53287,X
0AFF 88	DEY		0B90	20 94 0A	JSR	BONG
0B00 10 EB	BPL	WP	0B93	A9 14 NOY	LDA	#20
0B02 60	RTS		0B95	9D 96 OF	STA	SAVL,X
			0B98	20 65 OC	JSR	REVX
; see if ball should wrap			ODOD		RTS	TILVA
, see ii bali siloulu wrap			0000	C9 00 NEWY	CMP	40
ODOO MOAD		•	0000	C9 00 INEWY	CIVIP	#0
OBO3 WRAP	=.		ORAF	DO OR	BNE	HANDLE
0B03 BD D7 02 NODEC2	LDA	XPOSH,X	OBAO	AD 04 DC	LDA	56324
0B06 D0 17	BNE	RI3	OBA3	10 04	BPL	PLUS
0B08 BD CF 02	LDA	XPOS,X	OBA5	A9 FF	LDA	#255
OBOB C9 OA	CMP	#10	OBA7	D0 02	BNE	HANDLE
0B0D D0 26	BNE	NOWRAP	OBA9	A9 01 PLUS	LDA	#1
OBOF A9 14	LDA	#20	ORAR	20 AB OF HANDLE	JSR	NEGATE
OB11 9D 96 OF	STA	SA/I Y	ORAF	08	PHP	11247112
0B14 A9 4D	ina	#77	ODAL	10 03	DDI	FE1
0B16 9D CF 02	CTA	WDOC V	ODAL-	DO 0B AD 04 DC 10 04 A9 FF DO 02 A9 01 PLUS 20 AB 0E HANDLE 08 10 03 20 AB 0E 0A FE1	DEL	
0010 9D CF 02	SIA	XPU5,X	UBBI	ZU AB UE	JOH	NEGATE
0B19 A9 01	LUA	#1	0884	UA FET	ASL	
0B1B 9D D7 02	STA	XPOSH,X	QBB5	0A	ASL	
0B1E 60	RTS		OBB6	18	CLC	
OB1F BD CF 02 RI3	LDA	XPOS,X	OBB7	69 OA	ADC	#10
0B22 C9 4E	CMP	#78	OBB9	28	PLP	
0B24 D0 0F	RNF	NOWRAP	ORRA	10 03	BPI	FE2
0B26 A9 14	IDA	#20	OBBC	20 AR 0F	ISB	NEGATE
0B28 9D 96 0F	STA	CW/I A	ODDE	OD C7 02 EE2	0011	
OB2B A9 OB	314				CTA	
	IDA	#11	OBCO	60	STA	DELY,X
OBOD OD CE OO	LDA	#11 VD00 V	OBC2	60	RTS	DELY,X
0B2D 9D CF 02	LDA STA	#11 XP0S,X	OBC2	60	RTS	DELY,X
0B2D 9D CF 02 0B30 A9 00	LDA STA LDA	#11 XPOS,X #0	OBC2 ; ; move	0A 18 69 0A 28 10 03 20 AB 0E 9D C7 02 FE2 60		DELY,X
0B2D 9D CF 02 0B30 A9 00 0B32 9D D7 02	LDA STA LDA STA	#11 XPOS,X #0 XPOSH,X	OBC2 ; ; move	60 the balls		DELY,X
0B2D 9D CF 02 0B30 A9 00 0B32 9D D7 02 0B35 60 NOWRAP	LDA STA LDA STA RTS	#11 XP0S,X #0 XP0SH,X	0BC2 ; ; move ;	60 the balls MOVBALLS		•
0B2D 9D CF 02 0B30 A9 00 0B32 9D D7 02 0B35 60 NOWRAP	LDA STA LDA STA RTS	#11 XPOS,X #0 XPOSH,X	0BC2 ; ; move ; 0BC3 0BC3	the balls MOVBALLS		* #4
0B2D 9D CF 02 0B30 A9 00 0B32 9D D7 02 0B35 60 NOWRAP ; see if hit paddles		#11 XPOS,X #0 XPOSH,X	0BC2 ; ; move ; 0BC3 0BC3 0BC5	the balls MOVBALLS Å2 04 20 03 0B MOV1		* #4
		#11 XPOS,X #0 XPOSH,X	0BC2 ; move ; 0BC3 0BC3 0BC5 0BC5	the balls MOVBALLS À2 04 20 03 0B MOV1 20 17 0C		#4 WRAP
		#11 XPOS,X #0 XPOSH,X	OBC2 ; move ; OBC3 OBC3 OBC5 OBC8 OBC8	the balls MOVBALLS Å2 04 20 03 0B MOV1 20 17 0C 20 45 0C		#4 WRAP ADDX
		#11 XPOS,X #0 XPOSH,X	0BC2 ; move ; 0BC3 0BC3 0BC5 0BC8 0BCB	the balls MOVBALLS Å2 04 20 03 0B MOV1 20 17 0C 20 45 0C C9 31		#4 WRAP ADDX ADDY
		#11 XPOS,X #0 XPOSH,X	0BC2 ; move ; 0BC3 0BC3 0BC5 0BC8 0BCB	the balls MOVBALLS A2 04 20 03 08 MOV1 20 17 0C 20 45 0C C9 31 F0 04		#4 WRAP ADDX ADDY #TOP
		#11 XPOS,X #0 XPOSH,X	0BC2 ; move ; 0BC3 0BC3 0BC5 0BC8 0BCB 0BCE	60 MOVBALLS A2 04 MOVBALLS A2 07 00 MOV1 20 17 00 20 45 00 20 45 00 20 45 00 20 45 00 20 45 00 20 45 00		#4 WRAP ADDX ADDY #TOP DOREVY
		**11 XPOS,X #0 XPOSH,X ** ** ** ** ** ** ** ** ** ** ** ** **	0BC2 ; move ; 0BC3 0BC5 0BC5 0BC8 0BCB 0BCE 0BD0	the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C C9 31 F0 04 C9 E5		#4 WRAP ADDX ADDY #TOP DOREVY
		* XPOSH,X * XPOSH,X * XPOSH,X RIPAD DELX,X NOTLEFT	OBC2 ; move ; OBC3 OBC3 OBC5 OBC8 OBCB OBD0 OBD2 OBD4	the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C C9 31 F0 04 C9 E5 D0 03		#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY
		#11 XPOS,X #0 XPOSH,X * XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X	0BC2 ; move ; 0BC3 0BC5 0BC8 0BCB 0BCB 0BD0 0BD2 0BD4 0BD6	60 MOVBALLS A2 04 MOVBALLS A2 04 MOVBALLS A2 04 FOR COMMON COM		#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY REVY
		#11 XPOSH,X #0 XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD	0BC2 ; move ; 0BC3 0BC3 0BC5 0BC8 0BCB 0BD0 0BD2 0BD4 0BD6 0BD9	the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C 20 45 0C 20 31 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY		#4 WRAP ADDX ADDY #TOP DOREVY #80T DONTREVY REVY DELX,X
		*11 XPOS,X #0 XPOSH,X * XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBE1	0BC2 ; move ; 0BC3 0BC3 0BC5 0BCB 0BCB 0BCD 0BD2 0BD4 0BD6 0BD9 0BD0	in the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C 29 31 FO 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E		#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY REVY DELX,X RIGHTSIDE
		#11 XPOSH,X #0 XPOSH,X XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD #LEFTPAD +42	0BC2 ; move; ; 0BC3 0BC3 0BC5 0BCB 0BCB 0BCD 0BD2 0BD4 0BD4 0BD6 0BD9 0BDC	the balls MOVBALLS Å2 04 20 03 0B MOV1 20 17 0C 20 45 0C 29 31 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD CF 02		#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY REVY DELX,X RIGHTSIDE XPOS,X
		**11 XPOSH,X #0 XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBE1 #LEFTPAD+42 NOTLEFT	0BC2 ; move ; 0BC3 0BC3 0BC5 0BCB 0BCC 0BD0 0BD2 0BD4 0BD6 0BD9 0BDC 0BD9	the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C 20 45 0C 20 31 FO 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD CF 02 C9 14		#4 WRAP ADDX ADDY #TOP DOREVY #80T DONTREVY REVY REVY REVX RIGHTSIDE XPOS.X #LEFT
		*11 XPOS,X #0 XPOSH,X * XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBE1 #LEFTPAD + 42 NOTLEFT YPOS	0BC2 ; move ; 0BC3 0BC3 0BC5 0BCB 0BCB 0BD0 0BD2 0BD4 0BD6 0BD9 0BDC 0BDD 0BDE 0BDB	the balls MOVBALLS Å2 04 20 03 0B MOV1 20 17 0C 20 45 0C 93 11 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD CF 02 C9 14 D0 26		#4 WRAP ADDX ADDY #TOP DOREVY #80T DONTREVY REVY REVY REVX RIGHTSIDE XPOS.X #LEFT
		#11 XPOSH,X #0 XPOSH,X * XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBEI #LEFTPAD + 42 NOTLEFT YPOS	0BC2 ; move ; 0BC3 0BC3 0BC5 0BCB 0BCB 0BDC 0BD2 0BD4 0BD6 0BDD 0BDC 0BDC 0BDD 0BDC	the balls MOVBALLS Å2 04 20 03 0B MOV1 20 17 0C 20 45 0C 29 31 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD 07 02		#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY REVY DELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX
		**************************************	0BC2 ; move ; 0BC3 0BC3 0BC5 0BCB 0BCB 0BD0 0BD2 0BD4 0BD6 0BD9 0BDC 0BDE1 0BE3 0BE3	in the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C C9 31 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD CF 02 C9 14 D0 26 BD D7 02 D0 21		#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY REVY DELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX XPOSH,X
		**11 XPOS,X #0 XPOSH,X * XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBE1 #LEFTPAD+42 NOTLEFT YPOS YPOS,X **245	0BC2 ; move ; 0BC3 0BC3 0BC5 0BC8 0BCE 0BD0 0BD2 0BD4 0BD6 0BD5 0BD6 0BD6 0BD6 0BD6 0BD7 0BD7	the balls MOVBALLS Å2 04 20 03 0B MOV1 20 17 0C 20 45 0C C9 31 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD CF 02 C9 14 D0 26 BD D7 02 D0 21 F0 0C	LDX JSR JSR JSR CMP BEQ CMP BNE LDA BPL LDA BNE LDA BNE BNE	#4 WRAP ADDY ADDY #TOP DOREVY #80T DONTREVY REVY REVY SELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX XPOSH,X DONTREVX
		**11 XPOSH,X #0 XPOSH,X * XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBEI #LEFTPAD+42 NOTLEFT YPOS YPOS,X #246 HITPAD1	0BC2 : move : move : move : 0BC3 0BC5 0BC8 0BCB 0BC9 0BD0 0BD2 0BD4 0BD9 0BD5 0BE3 0BE3 0BE3 0BE8	the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C C9 31 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD CF 02 C9 14 D0 26 BD D7 02 D0 21 F0 0C BD CF 02 RIGHTSIDE	LDX JSR JSR JSR CMP BEQ CMP BNE LDA BPL LDA BNE LDA BNE BNE	#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY REVY DELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX XPOSH,X DONTREVX DONTREVX DONTREVX DONTREVX DONTREVX
0836 HITPADDI 0836 BD D7 02 0839 D0 2E 0838 BD BF 02 0838 10 28 0840 BD CF 02 0843 C9 18 0845 F0 04 0847 C9 45 0849 D0 1D 0848 AD DF 02 MAYBE1 084F FD DF 02 0845 S8 084F FD DF 02 0852 C9 F5 0854 B0 04	LE = LDA BNE LDA BPL LDA CMP BEQ CMP BNE LDA SEC SBC CMP BCS	*11 XPOS,X #0 XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBE1 #LEFTPAD+42 NOTLEFT YPOS,X #L45 HIPAD1+42	0BC2 ; move ; 0BC3 0BC3 0BC5 0BC8 0BCB 0BCB 0BD0 0BD2 0BD4 0BD6 0BD9 0BDC 0BD6 0BD9 0BDC 0BD6 0BD9 0BDC 0BD6 0BD9 0BC6 0BD6 0BC9 0BC6 0BC6 0BC6 0BC6 0BC6 0BC6 0BC6 0BC6	the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C 99 31 FO 04 98 30 0C DOREVY BB 67 02 DONTREVY 10 0E BD 0F 02 C9 14 D0 26 BD D7 02 D0 21 FO 0C BD 0F 02 RIGHTSIDE C9 44	LDX JSR JSR JSR CMP BEQ CMP BNE LDA BPL LDA BNE LDA BNE BNE	#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY REVY DELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX XPOSH,X DONTREVX DOREVX XPOSK,X
0836 HITPADDI 0836 BD D7 02 0839 D0 2E 0838 BD BF 02 0838 10 28 0840 BD CF 02 0843 C9 18 0845 F0 04 0847 C9 45 0849 D0 1D 0848 AD DF 02 MAYBE1 084F FD DF 02 0845 S8 084F FD DF 02 0852 C9 F5 0854 B0 04	LE = LDA BNE LDA BPL LDA CMP BEQ CMP BNE LDA SEC SBC CMP BCS	*11 XPOS,X #0 XPOSH,X * XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBE1 #LEFTPAD+42 NOTLEFT YPOS YPOS,X #245 HITPAD1 #15	0BC2 : move : move : move : 0BC3 0BC3 0BC5 0BC6 0BD0 0BD2 0BD4 0BD6 0BD9 0BD5 0BE1 0BE3 0BE3 0BE6 0BE6 0BE6 0BE6	the balls MOVBALLS Å2 04 20 03 0B MOV1 20 17 0C 20 45 0C 29 31 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD CF 02 C9 14 D0 26 BD D7 02 D0 21 F0 0C BD CF 02 RIGHTSIDE C9 44 D0 44 D0 44	LDX JSR JSR JSR CMP BEQ CMP BNE LDA BPL LDA BNE LDA BNE BNE	#4 WRAP ADDX ADDY #TOP DOREVY #80T DONTREVY REVY REVY DELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX XPOSH,X DONTREVX DOREVX XPOS,X #RIGHT
0836 HITPADDI 0836 BD D7 02 0839 D0 2E 0838 BD BF 02 0838 10 28 0840 BD CF 02 0843 C9 18 0845 F0 04 0847 C9 45 0849 D0 1D 0848 AD DF 02 MAYBE1 084F FD DF 02 0845 S8 084F FD DF 02 0852 C9 F5 0854 B0 04	LE = LDA BNE LDA BPL LDA CMP BEQ CMP BNE LDA SEC SBC CMP BCS	**************************************	08C2 ; move ; 08C3 08C3 08C5 08C8 08CB 08CD 08D2 08D4 08D6 08D9 08DC 08D1 08E3 08E3 08E4 08E6	the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C C9 31 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD CF 02 C9 14 D0 26 BD D7 02 D0 21 F0 0C C9 44 D0 18 BD CF 02 C9 14 D0 18 BD CF 02 RIGHTSIDE C9 44 D0 18 BD D7 02	LDX JSR JSR JSR CMP BEQ CMP BNE LDA BPL LDA BNE LDA BNE BNE	#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY REVY DELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX XPOSH,X DONTREVX XPOSH,X DONTREVX XPOS,X #RIGHT DONTREVX
0836 HITPADDI 0836 BD D7 02 0839 D0 2E 0838 BD BF 02 0838 10 28 0840 BD CF 02 0843 C9 18 0845 F0 04 0847 C9 45 0849 D0 1D 0848 AD DF 02 MAYBE1 084F FD DF 02 0845 S8 084F FD DF 02 0852 C9 F5 0854 B0 04	LE = LDA BNE LDA BPL LDA CMP BEQ CMP BNE LDA SEC SBC CMP BCS	*11 XPOS,X #0 XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBE1 #LEFTPAD+42 NOTLEFT YPOS YPOS,X #LEFTPAD #15 NOTLEFT NEWY	0BC2 ; move ; 0BC3 0BC3 0BC5 0BC8 0BC6 0BD0 0BD2 0BD4 0BD6 0BD6 0BD6 0BD6 0BD6 0BD6 0BD6 0BD6	the balls MOVBALLS À2 04 20 03 0B MOV1 20 17 0C 20 45 0C 93 11 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD CF 02 C9 14 D0 26 BD D7 02 D0 21 F0 0C BD CF 02 RIGHTSIDE C9 44 D0 18 BD D7 02	LDX JSR JSR JSR CMP BEQ CMP BNE LDA BPL LDA BNE LDA BNE BNE	#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY REVY DELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX XPOSH,X DONTREVX XPOSH,X DONTREVX XPOS,X #RIGHT DONTREVX XPOS,X #RIGHT DONTREVX XPOS,X #RIGHT DONTREVX XPOS,X #RIGHT DONTREVX XPOS,X
0836 HITPADDI 0836 BD D7 02 0839 D0 2E 0838 BD BF 02 0838 10 28 0840 BD CF 02 0843 C9 18 0845 F0 04 0847 C9 45 0849 D0 1D 0848 AD DF 02 MAYBE1 084F FD DF 02 0845 S8 084F FD DF 02 0852 C9 F5 0854 B0 04	LE = LDA BNE LDA BPL LDA CMP BEQ CMP BNE LDA SEC SBC CMP BCS	**11 XPOS,X #0 XPOSH,X * XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBE1 #LEFTPAD+42 NOTLEFT YPOS YPOS,X #245 HITPAD1 #15 NOTLEFT NOTLEFT NOTLEFT YPOS YPOS,X #245 HITPAD1 #15 NOTLEFT NOTLEFT NOTLEFT NOTLEFT NOTLEFT	OBC2 : move : move : mose : mo	the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C 29 31 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD CF 02 C9 14 D0 16 BD D7 02 D0 21 F0 0C BD 0F 02 RIGHTSIDE C9 44 D0 18 BD D7 02 F0 13	LDX JSR JSR JSR CMP BEQ CMP BNE LDA BPL LDA BNE LDA BNE BNE	#4 WRAP ADDY #TOP DOREVY #BOT DONTREVY REVY DELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX XPOSH,X DONTREVX DONTREVX XPOS,X #RIGHT DONTREVX XPOS,X #RIGHT DONTREVX XPOS,X #RIGHT DONTREVX XPOS,X XPOS,X #RIGHT DONTREVX XPOSH,X DONTREVX XPOSH,X DONTREVX
0836 HITPADDI 0836 BD D7 02 0839 D0 2E 0838 BD BF 02 0838 10 28 0840 BD CF 02 0843 C9 18 0845 F0 04 0847 C9 45 0849 D0 1D 0848 AD DF 02 MAYBE1 084F FD DF 02 0845 S8 084F FD DF 02 0852 C9 F5 0854 B0 04	LE = LDA BNE LDA BPL LDA CMP BEQ CMP BNE LDA SEC SBC CMP BCS	*11 XPOS,X #0 XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBE1 #LEFTPAD+42 NOTLEFT YPOS,X #245 HITPAD1 #15 NOTLEFT NEWY #1 53287,X	08C2 ; move ; 08C3 08C3 08C5 08C8 08CB 08CD 08D0 08D2 08D2 08D5 08D6 08D6 08D9 08D6 08D6 08D6 08D7 08E6 08E7 08E7	the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C 29 31 FO 04 29 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD 0F 02 DO 26 BD D7 02 DO 21 FO 0C BD 0F 02 RIGHTSIDE C9 44 D0 18 BD D7 02 FO 13 BD DF 02 DOREVX	LDX JSR JSR JSR CMP BEQ CMP BNE LDA BPL LDA BNE LDA BNE BNE	#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY REVY DELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX XPOSH,X DONTREVX XPOS,X #RIGHT DONTREVX XPOS,X XPOSH,X DONTREVX XPOSH,X DONTREVX XPOS,X XPOS,X XPOS,X
0836 HITPADDI 0836 BD D7 02 0839 D0 2E 0838 BD BF 02 0838 10 28 0840 BD CF 02 0843 C9 18 0845 F0 04 0847 C9 45 0849 D0 1D 0848 AD DF 02 MAYBE1 084F FD DF 02 0845 S8 084F FD DF 02 0852 C9 F5 0854 B0 04	LE = LDA BNE LDA BPL LDA CMP BEQ CMP BNE LDA SEC SBC CMP BCS	*11 XPOS,X #0 XPOSH,X #10 XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBE1 #LEFTPAD+42 NOTLEFT YPOS YPOS YPOS YPOS YPOS YPOS YPOS STANA **15 **15 **15 **15 **15 **15 **15 **1	OBC2 : move : mo	the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C C9 31 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD CF 02 C9 14 D0 26 BD D7 02 D0 21 F0 00 BD CF 02 RIGHTSIDE C9 44 D0 18 BD D7 02 F0 13 BD D7 02 F0 13 BD D7 02 F0 13 BD D7 02 FO 13	LDX JSR JSR JSR CMP BEQ CMP BNE LDA CMP BNE BDA CMP BNE BDA CMP BNE CMP BNE CMP BNE CMP BNE CMP	#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY REYY DELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX XPOSH,X DONTREVX XPOS,X #RIGHT DONTREVX YPOS,X #TOPEDGE
0836 HITPADDI 0836 BD D7 02 0839 D0 2E 0838 BD BF 02 0838 10 28 0840 BD CF 02 0843 C9 18 0845 F0 04 0847 C9 45 0849 D0 1D 0848 AD DF 02 MAYBE1 084F FD DF 02 0845 S8 084F FD DF 02 0852 C9 F5 0854 B0 04	LE = LDA BNE LDA BPL LDA CMP BEQ CMP BNE LDA SEC SBC CMP BCS	**I1 XPOS,X #0 XPOSH,X * XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #LEFTPAD MAYBEI #LEFTPAD + 42 NOTLEFT YPOS YPOS, X #245 NOTLEFT NOTLEFT YPOS YPOS,X #245 NOTLEFT NOTLE	08C2 ; move ; cost of the cost	the balls MOVBALLS A2 04 20 03 0B MOV1 20 17 0C 20 45 0C 29 31 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD 0F 02 C9 14 D0 26 BD D7 02 D0 21 F0 0C BD 0F 02 RIGHTSIDE C9 44 D0 18 BD DF 02 DOREVX C9 57 90 04	LDX JSR JSR JSR CMP BNE JSR JSR JSR BEQ LDA BPL LDA BEQ LDA BEQ LDA BEQ LDA CMP BNE BEQ LDA CMP BNE BEQ LDA CMP BNE BEQ LDA CMP BNE BNE BO LDA BPL LDA BPL LDA BPL LDA BPL LDA BPL LDA BPL LDA BPL BNE BNE BNE BNE BNE BNE BNE BNE BNE BNE	#4 WRAP ADDX ADDY #TOP DOREVY #80T DONTREVY REVY REVY REVY REVY REVY DELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX XPOSH,X DONTREVX DONTREVX DONTREVX XPOS,X #RIGHT DONTREVX XPOS,X #TOPEDGE DOREVYZ #TOPEDGE DOREVYZ
B36	LE = LDA BNE LDA BPL LDA CMP BEQ CMP BNE LDA SEC SBC CMP BCS	* XPOSH,X RI3 XPOS,X #10 NOWRAP #20 SAVL,X #77 XPOS,X #11 XPOSH,X XPOS,X #14 XPOSH,X XPOSH,X XPOSH,X XPOSH,X RIPAD DELX,X NOTLEFT XPOS,X #1EFTPAD MAYBE1 #LEFTPAD H22 NOTLEFT XPOS,X #15 NOTLEFT XPOS,X #245 HITPAD1 #15 NOTLEFT NEWY #15 3287,X BONG NOY	OBC2 ; move ; CBC3 OBC3 OBC3 OBC5 OBC8 OBC9 OBD0 OBD2 OBD1 OBD3 OBE5 OBE8 OBE6 OBC9 OBD1 OBE7 OBF1 OBF3 OBF8 OBF8 OBF8 OBF8	60 MOVBALLS A2 04 MOVBALLS A2 03 0B MOV1 20 17 0C 20 45 0C C9 31 F0 04 C9 E5 D0 03 20 83 0C DOREVY BD BF 02 DONTREVY 10 0E BD 0F 02 D0 26 BD 0F 02 D0 21 F0 0C BD 0F 02 BD 0F 03 BD 0F 04 BD 0F 05 BD 0	LDX JSR JSR JSR CMP BEQ CMP BNE LDA CMP BNE BDA CMP BNE BDA CMP BNE CMP BNE CMP BNE CMP BNE CMP	#4 WRAP ADDX ADDY #TOP DOREVY #BOT DONTREVY REYY DELX,X RIGHTSIDE XPOS,X #LEFT DONTREVX XPOSH,X DONTREVX XPOS,X #RIGHT DONTREVX YPOS,X #TOPEDGE

0C01 90 08 0C03 A9 14 DOREVX2 0C05 9D 96 0F 0C08 20 65 0C 0C0B 20 36 0B DONTREVX 0C0E CA	BCC	DONTREVX	; x bar number	
0C03 A9 14 DOREVX2 0C05 9D 96 0F	LDA			_ •
0003 3D 30 01 0008 20 65 0C	JSR	REVX	0C9C 8A	TXA
OCOB 20 36 OB DONTREVX	JSR	HITPADDLE	0C9D 48	PHA
OCOE CA	DEX	· #1	UC9E A9 33	LDA #<1075 STA FREE0
0COF E0 01 0C11 F0 03 0C13 4C C5 0B 0C16 60 OUT1	BEQ	0UT1	0CA2 A9 33	LDA #<1075+54272
0C13 4C C5 0B	JMP	MOV1	0CA4 85 FD	STA COLORO
0C16 60 CUT1 0C17 A0 00 ADDX	RTS	40	0CA6 A9 04	LDA #>1075
0C17 A0 00 ADDA 0C19 BD BF 02	LDI	DELX.X	OCAA A9 D8	STA FREE0+1 LDA #>1075+54272
0C1C 10 02	BPL	RI1	OCAC 85 FE	STA COLORO+1
0C1E A0 FF 0C20 8C F8 02 RI1	LDY	#255	OCAE 8A	TXA
0C23 8C F9 02	STY	HIGHX2	OCBO OA	ASL
0C23 8C F9 02 0C26 BD EF 02	LDA	XPOSL,X	OCB1 A8	TAY
0C29 18 0C2A 7D BF 02	CLC	DELVV	0CB2 BD 40 0F	LDA COLORS,X STA COLOR
0C2D 9D EF 02	STA	XPOSL.X	0CB7 A2 16	LDX #22
0C30 BD CF 02	LDA	XPOS,X	0CB9 A9 A0 DR1	LDA #160
0C33 6D F8 02 0C36 9D CF 02	ADC	HIGHX1	OCBB 91 FB	STA (FREEO),Y
0030 9D 0F 02 0039 BD D7 02	LDA	XPUS,X XPOSH X	OCRE 91 FR	STA (FREEO),Y
0C39 BD D7 02 0C3C 29 01	AND	#1	0CC0 88	DEY
0C3E 6D F9 02 0C41 9D D7 02	ADC	HIGHX2	0CC1 A5 F9	LDA COLOR
0C44 60	BTS	XPUSH,X	0003 91 FD 0005 C8	STA (COLORO),Y
0008 20 65 0C 0008 20 36 0B DONTREVX 0006 CA 0007 E0 01 0011 F0 03 0013 4C C5 0B 0016 60 OUT1 0017 A0 00 ADDX 0019 BD BF 02 001C 10 02 001C A0 FF 0020 8C F8 02 RI1 0023 8C F9 02 0026 BD EF 02 0028 BD EF 02 0029 18 0020A 7D BF 02 0020A 7D BF 02 0030 BD CF 02 0031 6D F8 02 0036 9D CF 02 0036 9D CF 02 0037 BD D7 02 0044 60 0045 A0 00 ADDY 0047 BD C7 02 0044 10 02 0044 10 02 0044 10 02 0044 10 02 0045 A0 00 ADDY 0047 BD C7 02 0048 BD BD F7 02 0049 BD BD F7 02 0049 BD BD F7 02 0040 BD C7 02 0051 BD C7 02 0058 BD DF 02 00556 BD DF 02 00586 BD F0 02 00586 BD DF 02 00586 BD F0 02	LDY	#0	0CC6 91 FD	STA (COLORO),Y
0C47 BD C7 02 0C4A 10 02	LDA	DELY,X	0CC8 88	DEY
0C4C A0 FF	I DY	#255	OCCR 18	LDA FREEO CLC
0C4E 8C FA 02 D01	STY	HIGHY	0CCC 69 28	ADC #40
0C51 BD E7 02 0C54 18 0C55 7D C7 02 0C58 9D E7 02	LDA	YPOSL,X	OCCE 85 FB	STA FREE0
0054 18 0055 70 07 02	ADC	DELVY	0CD0 A5 FC 0CD2 69 00	LDA FREEO+1 ADC #0
0C58 9D E7 02	STA	YPOSL,X	0CD4 85 FC	STA FREE0+1
0C5B BD DF 02 0C5E 6D FA 02	LDA	YPOS,X	0CD6 A5 FD	LDA COLORO
0C61 9D DF 02	STA	YPOS X	0CD8 18 0CD9 69 28	ADC #40
0064 60	RTS	11 00,10	0CDB 85 FD	STA COLORO
			OCDD A5 FE	LDA COLORO+1
; reverse the x direction			0CDF 69 00 0CF1 85 FF	ADC #0 STA COLORO+1
; 0C65 REVX 0C68 BD BF 02 0C68 20 AB 0E 0C68 BD BF 02 0C6E BD CF 02 0C71 85 06 0C73 20 17 0C WAIT1 0C76 BD CF 02 0C79 C5 06 0C7B FO F6 0C7D 20 17 0C 0C80 4C 17 0C 0C80 4C 17 0C 0C80 4C 17 0C 0C80 5C 0C7B 5C	=	*	OCE3 CA	DEX
0C65 BD BF 02 0C68 20 AB 0E	LDA	DELX,X	OCE4 10 D3	BPL DR1
0C6B 9D BF 02	STA	DELX.X	OCE7 AA	TAX
0C6E BD CF 02	LDA	XPOS,X	OCE8 60	RTS
0C71 85 06 0C73 20 17 0C WAIT1	STA	TEMP	; ; iountial, routing	
0C76 BD CF 02	LDA	XPOS.X	, joystick roddine	
0C79 C5 06	CMP	TEMP	OCE9 JOYSTICK	= *
0C7B F0 F6 0C7D 20 17 0C	BEQ	WAIT1	0CE9 A5 F7	LDA PFLAG BEQ PADDLES
007D 20 17 00 0080 40 17 00	JMP	ADDX	OCED A2 01	LDX #1
			OCEF BD 00 DC JOYLOOP	LDA \$DC00,X
; reverse the y direction			UCF2 4A	LSR BCS NOTUP
C083 REVY C083 BD C7 02 C086 20 AB 0E C089 9D C7 02 C086 BD DF 02 C08F 85 06 C091 20 45 0C WAIT2 C094 BD DF 02 C097 C5 06 C099 FO F6 C098 60	=	•	0CF5 BD DF 02	LDA YPOS,X
0C83 BD C7 02	LDA	DELY,X	OCF8 C9 3B	CMP #TOPLIMIT
0C86 20 AB 0E 0C89 9D C7 02	JSR	NEGATE DELVY	OCHA FO 13	BEQ NOGO DEC YPOS,X
008C BD DF 02	LDA	YPOS,X	OCFF 4C OF OD	JMP NOGO
0C8F 85 06	STA	TEMP	ODO2 4A NOTUP	LSR
0C91 20 45 0C WAIT2 0C94 BD DF 02	JSR	ADDY VPOS Y	UDO3 BO OA ODOS BO DE O2	BCS NOGO LDA YPOS,X
0097 C5 06	CMP	TEMP	0D08 C9 DC	CMP #BOTLIMIT
0099 F0 F6	BEQ	WAIT2	0D0A F0 03	BEQ NOGO
OC9B 60 :	HIS		0CSC	INC YPOS,X
draw a bar			0D10 10 DD	BPL JOYLOOP

0D12 60		RTS		OD8E	60		RTS	
paddle read	routine			sprite	movement ro	outine		
OD13 78 OD14 AD 00 OD17 48 OD18 A9 COD1A 8D 00	0	SEI LDA PHA LDA	* \$DC02 #\$C0 \$DC02	OD8F OD8F OD91 OD94 OD96 OD98	A9 01 8D 19 D0 A2 0E A0 07 A9 00		EDA STA LDX LDY LDA	* #1 \$D019 #14 #7 #0
0D1D A9 80 0D1F 8D 00 0D22 A0 80 0D24 EA 0D25 88	D DC	STA	#\$80 \$DC00 #\$80	OD96 OD98 OD9A OD9C OD9F ODA2 ODA5 ODA8 ODAB	85 02 B9 CF 02 S 9D 00 D0 B9 DF 02 9D 01 D0 B9 D7 02	PRI OOP	STA LDA STA LDA STA	MSB XPOS,Y 53248,X YPOS,Y 53249,X
OD26 DO FO OD28 A2 O OD2A BD 19 OD2D C9 3	1 9 D4 PLOP B	BNE LDX LDA CMP	DELK #1 \$D419,X #TOPLIMIT	ODAS ODAS ODAS ODAC ODAE	B9 D 00 D0 B9 DF 02 9D 01 D0 B9 D7 02 4A 4A 26 02 CA CA CA 88 88 10 E9 45 02 8D 10 D0 49 FA		LDA LSR ROL DEX	XPOSH,Y MSB
0D2F B0 0- 0D31 A9 31 0D33 D0 00 0D35 C9 D 0D37 90 00	B 6 C NO1	LDA BNE CMP	NO1 #TOPLIMIT NO2 #BOTLIMIT NO2	ODAF ODB0 ODB1 ODB3 ODB5	CA 88 10 E9 A5 02 8D 10 D0		DEX DEY BPL LDA STA	SPRLOOP MSB 53264
0D39 A9 D	C NO2	LDA PHA TXA ASL ASL	#BOTLIMIT	ODBD	A9 FA 8D 12 D0 AD 0D DC 29 01 FO 03		LDA STA LDA AND	#250 \$D012 \$DC0D #1 SKIP
OD3F OA OD40 18 OD41 69 B OD43 85 FI		ASL CLC ADC	# <stack Free0</stack 	ODC4 ODC7 ;	4C 31 EA 4C BC FE S	KIP	BEQ JMP JMP	\$EA31 \$FEBC
0D45 A9 01 0D47 69 04 0D49 85 FI 0D4B BD B 0D4E A8	D C	ADC STA	#>STACK				LDA STA LDA	* #127 56333 # <sprmov< td=""></sprmov<>
0D4F 68 0D50 91 FI 0D52 C0 0 0D54 D0 0	7 7	PLA STA CPY BNE	(FREE0),Y #7 MOTOP	0DD1 0DD4 0DD6 0DD9	A9 7F 8D 0D DC A9 8F 8D 14 03 A9 0D BD 15 03 A9 1B 8D 11 D0 A9 81 8D 1A D0 60		STA LDA STA LDA	\$0314 #>SPRMOV \$0315 #27 53265
0D56 A9 0 0D58 9D B 0D5B F0 0 0D5D FE B 0D60 A9 0	B OF	STA BEQ INC	STACKPT,X SKIPINC STACKPT,X #0				STA LDA STA RTS	53265 #129 53274
0D62 85 FI 0D64 85 FI 0D66 A0 0 0D68 A5 FI	D E 7	SIA	COLORO		sprites S	ETSPRITE	== I DV	* #127
0D6A 18 0D6B 71 FI 0D6D 85 FI 0D6F A5 FI	B D E	CLC ADC STA LDA	(FREE0),Y COLORO COLORO+1	ODE6 ODE9 ODEC ODED	B9 B1 0E S 99 40 03 88 10 F7	etsprite 1.00p1	LDA STA DEY BPL	SPRDAT,Y 832,Y SLOOP1
0D71 69 0 0D73 85 FI 0D75 88 0D76 10 FC 0D78 A5 FI	E D	STA Dey BPL LDA	COLORO+1	ODF1 ODF4 ODF7 ODF9	8D F8 07 8D F9 07 A9 0D A0 02		STA STA LDA LDY	#14 2040 2041 #13 #2
0D7A 46 FI 0D7C 6A 0D7D 46 FI 0D7F 6A 0D80 46 FI	E	LSR ROR LSR ROR	COLORO+1 COLORO+1 COLORO+1	ODFB ODFE ODFF OE01 OE03	99 FA 07 S 88 10 FA A9 1F 8D 15 D0	LOOP2	STA DEY BPL LDA STA	2042,Y SL00P2 #31 53269
OD82 6A OD83 9D D OD86 CA OD87 10 A	F 02	ror Sta Dex BPL	YPOS,X PLOP	0E06 0E08 0E0B 0E0D	A9 03 8D 1D D0 A2 02 A9 32 L		LDA STA LDX LDA	#3 53277 #2 #50
0D89 68 0D8A 8D 0 0D8D 58	2 DC	PLA STA CLI	\$DC02	0E0F 0E12 0E13	9D C9 02 CA 10 F8		STA Dex BPL	DELY+2,X LP

0E15 60	RTS	OEAA 60	RTS
; ; set paddle position		; ; negate a number	
0E16 SETPOS 0E16 A0 04 0E18 B9 31 0F SETLOOP 0E1B B9 CF 02 0E1E B9 36 0F 0E21 99 D7 02 0E24 B9 3B 0F	LDY #4 LDA XPOST,Y STA XPOS,TY LDA XPOSHT,Y STA XPOSHT,Y LDA YPOST,Y	OEAB NEGATE OEAB 49 FF OEAD 18 OEAE 69 01 OEBO 60 ; sprite data	EOR #255 CLC ADC #1 RTS
0E27 99 DF 02 0E2A B9 34 0E 0E2D 99 27 D0 0E30 88 0E31 10 E5 0E33 60 0E34 01 00 03 SPRCOLOR : set up screen	STA YPOS,Y LDA SPRCOLOR,Y STA 53287,Y DEY BPL SETLOOP RTS .BYTE 1,0,3,3,3	; 0EB1 00 00 00 SPRDAT 0EB9 00 00 00 00 00 0EC1 00 00 00 00 0EC1 00 00 00 0ED1 00 00 00 0ED1 00 00 0ED1 00 00 0EE1 00 00 00 0EE1 00 00 00 0EET1 CO 00 03	BYTE 0,0,0,0,0,0,0 BYTE 0,0,0,0,0,0,0 BYTE 0,0,0,0,0,0,0 BYTE 0,0,0,0,024,0,060 BYTE 0,0,60,0,0024,0,0 BYTE 0,0,00,0,0,0 BYTE 0,0,0,0,0,0,0 BYTE 0,0,0,0,0,0,0 BYTE 0,0,0,0,0,0,127 BYTE 192,0,3,192,0,3,192,
0E39 SETSCREEN 0E39 A9 93 0E3B 20 D2 FF 0E3E A9 0B	LDA #"{CLR}" JSR \$FFD2 LDA #BACKGROUND	0EF9 03 C0 00 0F01 00 03 C0	0 .BYTE 3,192,0,3,192,0,3,1 92 .BYTE 0,3,192,0,3,192,0,3
0E40 8D 21 D0 0E43 A9 00 0E45 8D 20 D0 0E48 A0 27	STA 53281 LDA #BORDER STA 53280 LDY #39	0F09 C0 00 03 0F11 03 C0 00	.BYTE 192,0,3,192,0,3,192, 0 .BYTE 3,192,0,3,192,0,3,1
0E4A A9 A0 S1 0E4C 99 00 04 0E4F 99 C0 07	LDA #160 STA 1024,Y STA 1984,Y	0F19 00 03 C0 0F21 C0 00 03	.BYTE 0,3,192,0,3,192,0,3 .BYTE 192,0,3,192,0,3,192, 0
0E52 A9 0F 0E54 99 00 D8 0E57 99 C0 DB 0E5A 88 0E5B 10 ED	LDA #WALLCOLOR STA 55296,Y STA 56256,Y DEY BPL S1	0F29 03 C0 00 0F31 21 1F 0C XPOST 0F36 00 01 00 XPOSHT 0F3B 82 82 82 YPOST	BYTE 3,192,0,3,192,0,3,8 BYTE 33,31,12,12,12 BYTE 0,1,0,0,0 BYTE 130,130,130,140,1 50
0E5D A0 C8 0E5F A9 A0 S2 0E61 99 00 04 0E64 99 27 04 0E67 99 F8 06 0E6A 99 1F 07 0E6D A9 0F 0E6B 99 0D D8	LDY #200 LDA #160 STA 1024,Y STA 1063,Y STA 1784,Y STA 1823,Y LDA #WALLCOLOR STA 1024+54272,Y	0F40 OA 03 OD COLORS 0F45 AO E1 61 BRICKS 0F48 E1 61 20 RESULTBRI 0F4E OA 14 1E SCORES 0F51 9B 12 53 TITLE1	BYTE 10,3,13,3,10 BYTE 160,225,97 BYTE 225,97,32,32,32,32 BYTE 10,20,30 ASC "K=3-J{RVS}SCORE {9 SPACE}TIME 3: 00 {4 SPACE}SCOR
0E72 99 27 D8 0E75 99 F8 DA 0E78 99 1F DB 0E7B 98	STA 1063+54272,Y STA 1784+54272,Y STA 1823+54272,Y TYA	0F73 00 0F74 50 52 49 TITLE2 0F7E 00 0F7F 50 52 45 MESS3	BYTE 0 ASC "PRISONBALL" BYTE 0 ASC "PRESS FIREBUTT
0E7C 38 0E7D E9 28 0E7F A8 0E80 C9 D8 0E84 A2 04 0E86 20 9C 0C DRB 0E88 A0 10 FA 0E80 A2 00 0E8E A0 01 0E90 18 0E90 18 0E91 20 FO FF 0E94 A9 51 0E96 A0 0F 0E98 20 1E AB 0E98 A2 18 0E99 A0 0F 0E99 18 0E90 A0 0F 0E98 A0 0F 0E99 A0 0F 0E98 A0 0F 0E99 A0 0F	SEC SBC #40 TAY CMP #216 BNE S2 LDX #4 JSR DRAWBAR DEX BPL DRB LDX #0 LDY #1 CLC JSR \$FFF0 LDA # <title1 #="" ldy="">#15 CLC JSR \$AB1E LDX #24 LDY #15 CLC JSR \$FFF0 LDA #<title2 #="" ldy="">TITLE2 LDY #>TITLE2 LDY #>TITLE2 LDY #>TITLE2</title2></title1>	0F8F 00 0F90 SAVL 0F90 COUNTERS 0F90 SCORE2L 0F90 SCORE2H 0F90 SCORE2H 0F90 SCORED 0F90 INDEX 0F90 FLAG 0F90 STACKPT 0F90 STACK	ON" = '+6 = '+26 = '+36 = '+37 = '+38 = '+40 = '+41 = '+42 = '+43 = '+45

Q-Bird

Source code by Mike Sedore

0801		*=	\$801	0835	A5 02	LDA	\$2
; :variables				0837 0839	85 D6 20 10 E5	STA JSR	\$D6 PCURSOR
,variables				083C	A0 06	LDY	#6
0801	٧	=	\$D000	083E	A2 0E COLUM		#\$E
0801	BDRCOLOR	_	V+\$20	0840	BD 61 08 ASQUA		SQRDATA,X
0801	BCKCOLOR	_	V+\$21	0843	20 D2 FF	JSR	PRINT
0801	PRINT	=	\$FFD2	0846	CA 10 F7	DEX BPL	ACCUARE
0801 0801	PCURSOR SPRITEMC	=	\$E510 V+\$1C	0847 0849	10 F7 88	DEY	ASQUARE
0801	SPRITEON	_	V+\$15	084A	10 F2	BPL	COLUMN
0801	SPRHRZ	_	V+\$1D	084C	A9 0D	LDA	#\$D
0801	SPRVRT	_	V+\$17	084E	20 D2 FF	JSR	PRINT
0801	SMC1	=	V+\$25	0851	20 D2 FF	JSR	PRINT
0801	SMC2	=	V+\$26	0854	E6 02	INC	\$2
0801	SCOLOR	=	V+\$27	0856 0858	E6 02	INC LDA	\$2 \$2
0801 0801	SPOINTER ILZRDSPD	=	\$7F8 \$33C	085A	A5 02 C9 10	CMP	∌∠ #\$10
0801	SID	=	\$D400	085C	D0 D0	BNE	ROW
0801	RANDOM	_	SID+\$1B	085E	4C 70 08	JMP	TEXT
0801	JOYSTICK		\$DC00	0861	1D 91 B7 SQRDA	TA .ASC	"{RIGHT}{UP}F<
0801	SPRJMP	=	\$3FE				2 Y-JI25-J(3 FFT
0801	SQRCOMP	=	\$3D0				}{DOWN}£{OFF
0801	LEVÉL PRIORITY	=	\$3E1				}` <u>e</u> {rvs}{wht}"
0801 0801	EGGPAUS	_	V+\$1B \$3C5	nrint e	creen text		
0801	IRQ	_	\$314	;pinit :	orocri toxt		
0801	IRQENTRY	=	\$EA31	0870	AO 09 TEXT	LDY	#9
0801	RESTORE	=	\$318	0872	A9 00	LDA	#0
0801	SHIFT	=	\$28D	0874	85 02	STA	\$2
0801	DIRBJ	=	\$8000	0876	A6 02 NEXTCH		\$2 TEVTDATA V
0801 0801	DIRLJ DIRCJ	=	\$8001 \$8002	0878 087B	BD AD 08 C9 FF	LDA CMP	TEXTDATA,X #\$FF
.0001	DING	_	\$000Z	087D	FO 08	BEQ	NEXTMSSG
basic line				087F	20 D2 FF	JSR	PRINT
:				0882	E6 02 CRSRS		\$2
0801 OB	08 00	.BYT	\$B,\$8,\$0,\$0,\$9E,\$3	0884	4C 76 08	JMP	NEXTCHAR
			2,\$30,\$36,\$31,\$0,\$	0887	88 NEXTM		DE40000
_			0,\$0	0888 A880	10 03 4C 8F 13	BPL JMP	READCRSP PRINTLVS
; ;m.l.				088D	E8 READCI		PRINTLYS
,111.1.				088E	E6 02	INC	\$2
080D A9	00 START	LDA	#0	0890	BD AD 08	LDA	ŤEXTDATA,X
080F 8D	20 D0	STA	BDRCOLOR	0893	85 D3	STA	\$D3
0812 20	AD 14	JSR	SETLIVES	0895	E8	INX	
	1B 08	JSR	GRID	0896	E6 02	INC	\$2
0818 4C 081B A9	C1 0B 93 GRID	JMP LDA	SPRSETUP #\$93	0898 089B	BD AD 08 85 D6	LDA STA	Textdata,x \$D6
	D2 FF	JSR	PRINT	089D	48	PHA	φυσ
0820 A9		LDA	#8	089E	8A	TXA	
	D2 FF	JSR	PRINT	089F	48	PHA	
0825 A9		LDA	#\$8E	08A0	98	TYA	
0827 20	D2 FF	JSR	PRINT	08A1	48	PHA	DOLIDOOD
				08A2 08A5	20 10 E5 68	JSR PLA	PCURSOR
print grid				08A6	88	TAY	
082A A9	04	LDA	#4	08A7	68	PLA	
082C 85		STA	\$2	08A8	ÃÃ	TAX	
082E A9		LDA	#\$E	08A9	68	PLA	
0830 38		SEC	••	AA80	4C 82 08	JMP	CRSRSET
0831 E5		SBC	\$2 \$D3	;	ior coroon tout		
0833 85	D3	STA	φυσ	,uata 1	or screen text		

; 08AD	FF 21 05 TEXTDATA	DVT	PET PO4 PE	0967	A9 00	LDA	#0
08B0		.BYT .ASC	\$FF,\$21,\$5 "{RED}Q-BIRD"	0969 096C	8D 15 D0 8D 1D D0	STA	SPRITEON
08B7	FF 21 06	.BYT	\$FF,\$21,\$6	096F	8D 17 D0	STA STA	SPRHRZ SPRVRT
08BA		ASC	"[<6 T>]"	0972	A9 07	LDA	#7
08C0	FF 23 08	.BYT	\$FF,\$23,\$8	0974	8D 25 D0	STA	SMC1
08C3		.ASC	"{BLU}BY"	0977	4C 7A 0B	JMP	SPRSET2
08C6		.BYT	\$FF,\$22,\$A	;			
08C9	4D 49 4B	.ASC	"MIKE"	;sprite	e data		
08CD		.BYT	\$FF,\$21,\$C	;			
08D0 08D6		.ASC .BYT	"SEDORE"	097A	03 CO 00 SPRDAT1	.BYT	3,192,0,14,176,240,
08D9		.ASC	\$FF,\$4,\$11 "{GRN}HISCORE:[<	0982	AC 36 6A	.BYT	58,175
0003	11 40 43	.AGU	6>100000"	0902	AC 30 0A	.DT I	172,54,106,172,214, 170,176,58
08E8	HISCRMEM	=	*-5	098A	AA BO OE	.BYT	170,176,14,170,192,
08E8	FF 05 13	.BYT	\$FF,\$5,\$13		,		3,103,0
08EB	1E 53 43	.asc	"{GRN}SCORE:[<6	0992	03 77 00	.BYT	3,119,0,13,221,192,
			>]000000" *-5				3,51
08F8	SCRMEM SCRMEM	=		099A	00 00 00	.BYT	0,0,0,0,0,0,0,0
08F8 08FB	FF 19 11 1E 4C 45	.BYT	\$FF,\$19,\$11	09A2	00 00 00	.BYT	0,0,0,0,0,0,0
OOFD	15 40 40	.ASC	"{GRN}LEVEL:[<6 >]01"	09AA 09B2	00 00 00 00 00 00	.BYT .BYT	0,0,0,0,0,0,0
0905	FF 19 13	.BYT	\$FF,\$19,\$13	09BA	03 C3 00 SRPDAT2	.BYT	0,0,0,0,0,0,0,0 3,195,0,14,190,240,
0908	1E 4C 49	.ASC	"{GRN}LIVES:[<6	OODA	00 00 00 011 DAI2	.011	58,170
			> ″	09C2	EC D6 6B	.BYT	236,214,107,172,54,
0910	FF	.BYT	\$FF				171,176,218
;				09CA	AE BO 3E	.BYT	174,176,62,170,192,
print	dividing lines on screen						3,103,0
; 0911	AO 07 LID7I INCO	LDA	4007	09D2	03 77 00	.BYT	3,119,0,3,119,0,13,2
0913	A9 97 HRZLINES 20 D2 FF	LDA JSR	#\$97 PRINT	0004	00 00 00	D) CT	21
0916	AO 02	LDY	#2	09DA 09E2	CO 03 33 00 00 00	.BYT	192,3,51,0,0,0,0,0
0918	A9 A4	LDA	#\$A4	09EA	00 00 00	.BYT .BYT	0,0,0,0,0,0,0,0 0,0,0,0,0,0,0
091A	20 2E 09	JSR	PRINTHRZ	09F2	00 00 00	.BYT	0,0,0,0,0,0,0,0
091D	A0 10	LDY	#\$10	09FA	00 OF 00 SPRDAT3	.BYT	0,15,0,60,58,192,23
091F	A9 A3	LDA	#\$A3				5,234
0921	20 2E 09	JSR	PRINTHRZ	0A02	BO EA A6	.BYT	176,234,166,112,58,
0924 0926	A0 14 A9 A4	LDY	#\$14 #\$0.4	0404	44 DO OF	D) 6	170,92,58
0928	20 2E 09	LDA JSR	#\$A4 PRINTHRZ	0A0A	AA BO OE	.BYT	170,176,14,170,192,
092B	4C 42 09	JMP	VRTLINE	0A12	03 77 00	.BYT	3,103,0
092E	84 D6 PRINTHRZ	STY	\$D6	UNIZ	00 11 00	.611	3,119,0,13,221,192, 3,51
0930	A0 00	LDY	#0	OA1A	00 00 00	.BYT	0,0,0,0,0,0,0,0
0932	84 D3	STY	\$D3	0A22	00 00 00	BYT	0,0,0,0,0,0,0,0
0934	48	PHA		OA2A	00 00 00	.BYT	0,0,0,0,0,0,0
0935	20 10 E5	JSR	PCURSOR	0A32	00 00 00	.BYT	0,0,0,0,0,0,0,0
0938 0939	68 A2 26	PLA LDX	#\$26	0A3A	03 OF 00 SPRDAT4	.BYT	3,15,0,62,250,192,2
093B	20 D2 FF PRHZ	JSR	#\$20 PRINT	0A42	BO EB A6	.BYT	38,170
093E	CA	DEX	THEF	UMAZ	DU ED AU	.D11	176,235,166,92,59,1 70,112,58
093F	10 FA	BPL	PRHZ	0A4A	EA 9C 0E	.BYT	234,156,14,170,240,
0941	60	RTS					3,103,0
0942	A9 1F VRTLINE	LDA	#\$1F	0A52	03 77 00	.BYT	3,119,0,3,119,0,13,2
0944	85 D3	STA	\$D3				21
0946	A9 03	LDA	#3	0A5A	CO 03 33	.BYT	192,3,51,0,0,0,0,0
0948 094A	85 D6 20 10 E5	STA	\$D6	0A62	00 00 00	.BYT	0,0,0,0,0,0,0
094D	A2 0C	JSR LDX	PCURSOR #\$C	0A6A 0A72	00 00 00 00 00 00	.BYT .BYT	0,0,0,0,0,0,0
094F	A9 A7 VRTLOOP	LDA	#\$A7	0A72	03 CO 00 SPRDAT5	.BYT	0,0,0,0,0,0,0,0 3,192,0,14,176,0,54,
0951	20 D2 FF	JSR	PRINT	UNIN	00 00 00 01 NDA13	.011	108
0954	A9 9D	LDA	#\$9D	0A82	00 EA AC	.BYT	0,234,172,0,254,172
0956	20 D2 FF	JSR	PRINT				,0,234
0959	A9 11	LDA	#\$11	A8A0	AC 00 3E	.BYT	172,0,62,176,0,234,
095B	20 D2 FF	JSR	PRINT	0400	05 40 00		172,0
095E 095F	CA 10 EE	DEX BPL	VPTLOOD	0A92	35 AC 00	.BYT	53,172,0,13,172,0,1
0961	60	RTS	VRTLOOP	0A9A	00 0D AC	.BYT	3,172
;				UHJA	₩ W MU	.011	0,13,172,0,58,172,0, 234
;sprite	set-up			0AA2	B0 00 3E	.BYT	176,0,62,176,0,14,1
;	·						76,0
0962	A9 FF SPRSET1	LDA	#\$FF	0AAA	03 AC 00	BYT	3,172,0,0,240,0,0,0
0964	8D 1C D0	STA	SPRITEMC	0AB2	00 00 00	.BYT	0,0,0,0,0,0,0

OABA	03 CO 00 SPRDAT6	.BYT	3,192,0,14,176,0,54, 108		E,\$0,\$0
0AC2	00 EA AC	.BYT	0,234,172,0,234,172	execute sprite set-up and jump into de	mo
0ACA	BO 00 0E	.BYT	,0,58 176,0,14,172,0,58,1	OBC1 20 62 09 SPRSETUP JSR OBC4 4C 80 12 JMF	
0AD2	E5 AC 00	.BYT	72,0 229,172,0,61,172,0,	;	DEIVIOIVIOSA
0ADA	00 OD AC	.BYT	13,172 0,13,172,0,58,176,0,	start of bird routine	D DALICCAME
OAE2	BO 00 EE	.BYT	234 176,0,238,176,0,62,	OBC7 4C E9 18 BIRD JMF OBCA AD 34 03 RTNBIRD LDA	\ \$334
0AEA	03 B0 00	.BYT	176,0 3,176,0,0,192,0,0,0	0BCD C9 07 CMI 0BCF D0 0F BNE	EXITBIRD
OAF2 OAFA	00 00 00 0F 00 00 SPRDAT7	.BYT .BYT	0,0,0,0,0,0,0,0 15,0,0,58,192,0,230,	0BD1 A9 00 LDA 0BD3 8D 34 03 STA	\$334
0B02	00 EA AC	.BYT	112 0,234,172,0,234,252	0BD6 EE 35 03 INC 0BD9 AD 35 03 LDA	A \$335
OB0A	AC 00 3A	.BYT	,0,234 172,0,58,240,0,234,	OBDC C9 05 CMI OBDE FO 03 BEC	D BIRD1
0B12	E9 70 00	.BYT	172,0 233,112,0,233,192,0	OBEO 4C D8 15 EXITBIRD JMF OBE3 20 2A OC BIRD1 JSF	R CBC
OB1A	00 E9 C0	.BYT	,233,192 0,233,192,0,234,176	OBE6 FO 03 BEC OBE8 4C A9 11 JMI	P SUPERJMP
0B22	AC 00 3A	.BYT	,0,58 172,0,58,240,0,58,1	OBEB 20 CO 11 BSTILL JSF OBEE 29 OF ANI	D #\$F
OB2A	EB 00 00	.BYT	92,0 235,0,0,60,0,0,0,0	OBFO 49 OF EOF OBF2 85 03 STA	
0B32	00 00 00	.BYT .BYT	0,0,0,0,0,0,0,0	OBF4 29 01 ANI OBF6 FO 08 BEG	
OB3A	OF 00 00 SPRDAT8		15,0,0,58,192,0,230, 112	OBF8 A9 00 LDA	A #0
0B42	00 EA AC	.BYT	0,234,172,0,234,172 ,0,58	OBFA 8D 00 80 STA OBFD 4C 8D 0C JMI	
OB4A	BO 00 EA	.BYT	176,0,234,192,0,234 ,176,0	0C00 A5 03 JD0WN LDA 0C02 29 02 ANI	
0B52	E9 6C 00	.BYT	233,108,0,233,240,0 ,233,192	0C04 F0 08 BEC 0C06 A9 20 LD/	
OB5A	00 E9 C0	.BYT	0,233,192,0,58,176, 0,58	0C08 8D 00 80 STA 0C0B 4C 8D 0C JM	
0862	AC 00 3A	.BYT	172,0,58,236,0,58,2 40,0	0C0E A5 03 JLEFT LD/ 0C10 29 04 ANI	A \$3
0B6A 0B72	3B 00 00 00 00 00	.BYT .BYT	59,0,0,12,0,0,0,0 0,0,0,0,0,0,0	0C12 F0 08 BE0 0C14 A9 40 LD/	
;				0C16 8D 00 80 ST/ 0C19 4C 8D 0C JM	
;	orite colors and pointers		_	OC1C A5 03 JRIGHT LD/	A \$3
OB7A OB7C	A9 00 SPRSET2 8D 26 D0	LDA STA	#0 SMC2	0C1E 29 08 AN 0C20 F0 BE BEG	
0B7F	A2 07	LDX	#7	0C22 A9 60 LD/	A #\$60
0B81	BD 93 OB SCPLOOP	LDA	SCDATA,X	0C24 8D 00 80 ST/ 0C27 4C 8D 0C JM	
0B84 0B87	9D 27 D0 BD 9B 0B	STA LDA	SCOLOR,X SPDATA,X	0C27 4C 8D 0C JM 0C2A A9 00 CBC LD	
OB8A	9D F8 07	STA	SPOINTER,X	0C2C 8D 35 03 ST/	A \$335
OB8D	CA	DEX	•	0C2F AD 36 03 LD	
OB8E	10 F1	BPL	SCPLOOP	0C32 60 RT3 0C33 8D 21 D0 CTB1 ST/	
0B90 0B93	4C A3 0B 05 04 04 SCDATA	JMP .BYT	SPRSET3 5,4,4,4,9,2,6,14	0C33 8D 21 D0 CTB1 ST/	4 BUNGULUN
0B9B	8C 86 84 SPDATA	.BYT	\$8C,\$86,\$84,\$86,\$8 A,\$88,\$80,\$8E	clear tape buffer for number storage	
;			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0C36 A9 00 LD. 0C38 A2 CB LD	
set sp	prite locations			0C38 A2 CB LD 0C3A 9D 34 03 CTB1LOOP ST	
OBA3	A2 OF SPRSET3	LDX	#\$F	OC3D CA DE	
OBA5	BD B1 OB SLLOOP	LDA	SLDATA,X	0C3E E0 FF CP 0C40 D0 F8 BN	
OBA8 OBAB	9D 00 D0 CA	STA Dex	V,X	0C40 D0 F8 BN 0C42 60 RT	
OBAC	10 F7	BPL	SLL00P	OC43 EE 36 03 BJCNTR INC	C \$336
OBAE	60	RTS		OC46 AE 36 O3 NOINC LD	
OBAF	00	BRK		0C49 E0 1A CP 0C4B D0 08 BN	YX #\$1A IE MOVEBIRD
OBBO	00 78 66 6D SLDATA	BRK .BYT	\$78,\$66,\$6D,\$47,\$F	0C4B D0 08 BN 0C4D A9 00 LD	
OBB1			D,\$47,\$1D,\$97	0C4F 8D 36 03 ST	A \$336
OBB9	00 00 00	.BYT	\$0,\$0,\$0,\$0,\$A9,\$9	0C52 4C 15 16 JN	MP CHECKEGG

;	بالمنتب والمتاب	£ 1			OCE5	4A		LSR	
move	bird 1 pixel of	r jump			OCE6 OCE7	4A 18		LSR CLC	
, 0C55	8A N	//OVEBIRD	TXA		OCE8	69 OC		ADC	#\$C
0056	18		CLC		OCEA	8D 3B 03		STA	\$33B
0C57 0C5A	6D 00 80 AA		ADC TAX	DIRBJ	OCED OCFO	20 AC 0C 4C 8C 0D		JSR	SLTOSL
0C5B 0C5E 0C5F	BD F3 OC		LDA	JMPDATA,X	:	40 00 00	JIN4	JMP	CHKSQR
OC5E	AA		TAX	,	;data f	or direction	of each dot of r	novemer	nt during a jump
0C5F 0C62	BD 76 0C 18		LDA	XDIR,X	;		IAADD ATA		
0063	6D OC DO		CLC ADC	V+\$C	OCF3 OCF3	00 01 01	JMPDATA JDUP	.BYT	0,1,1,1,1,1,1
0066	8D 0C D0		STA	V+\$C	0CFB	01 09 09	0001	BYT	1,9,9,9,9,9,9
0069	BD 81 0C		LDA	YDIR,X	0D03	09 08 08		.BYT	9,8,8,8,8,8,8
006C 006D	18 6D 0D D0		CLC ADC	V+\$D	0D0B 0D13	08 00 00	JDDOWN	.BYT .BYT	8,0,0,0,0,0,0,0
0070	8D 0D D0		STA	VIED	0D18	04 06 06	JDDOWN	.BYT	0,4,4,4,4,4,4 4,6,6,6,6,6,6
0C73	4C CF 17		JMP	BJSOUND	0D23	06 02 02		.BYT	6,2,2,2,2,2,2
0076	00 00 00 X	DIR	.BYT	0,0,0,0,255,255,255,	OD2B	02 00 00 00 05 05	IDI EET	.BYT	2,0,0,0,0,0,0,0
0C81	00 FF 01 Y	DIR	.BYT	0,1,1,1 0,255,1,0,0,255,1,0,	0D33 0D3B	05 04 04	JULEFI	.BYT .BYT	0,5,5,5,5,5,5 5,4,4,4,4,4,4
				0,255,1,0	0D43	04 06 06		BYT	4,6,6,6,6,6,6,6
;		44.141			OD4B	06 00 00		.BYT	6,0,0,0,0,0,0,0
;set dir	d sprite pointe	er to match di	rection (of jump	0D53 0D5B	00 09 09 09 08 08	JDRIGHT	.BYT .BYT	0,9,9,9,9,9,9
0C8D	AD 00 80 S	ETBIRDP	LDA	DIRBJ	0D5B	08 0A 0A		.BYT	9,8,8,8,8,8,8,8 8,10,10,10,10,10,10,
0090	FO OC		BEQ	BIRDUR					10
0092	C9 60		CMP	#\$60	OD6B	0A 00 00		.BYT	10,0,0,0,0,0,0
0C94 0C96	F0 08 A9 81		BEQ LDA	BIRDUR #\$81	;	e square co	or		
0098	8D FE 07		STA	SPOINTER+6	;criarigi	s square co	Oi .		
0C9B	4C 43 0C		JMP	BJCNTR	0D73	A5 FE	CSQRCOL	LDA	\$FE
OC9E OCAO		IRDUR	LDA	#\$83	0D75	18		CLC	# **
OCA3	8D FE 07 4C 43 0C		STA JMP	SPOINTER+6 BJCNTR	0D76 0D78	69 D4 85 FE		ADC STA	#\$D4 \$FE
OCA6	CE FE 07 B	IRDSIT	DEC	SPOINTER+6	OD7A	AO 02		LDY	#2
OCA9	4C EO OB		JMP	EXITBIRD	OD7C	B1 FD	CLOOP	LDA	(\$FD),Y
; transla	to oprito locat	iono to o coro	on loost	ian.	OD7E	4C 48 12	000	JMP	CHKCOLR
,0 00 1510	te sprite locat	ions to a scre	en iocal	1011	0D81 0D84	20 01 17 91 FD	000	JSR STA	INCSCORE (\$FD),Y
OCAC		LTOSL	LDA	#4	0D86	88		DEY	(ψι υ), ι
OCAE	85 FE		STA	\$FE	0D87	10 F3		BPL	CLOOP
OCBO OCB2	A0 00 84 FD		LDY STY	#0 \$FD	0D89	4C A6 0C	CCDONE	JMP	BIRDSIT
OCB4	A2 04		LDX	#4	; :check	if bird is or	a square		
OCB6	AD 3A 03 V	rtadd	LDA	\$33A	;		•		
OCB9	18 es co		CLC	AFD	OD8C	B1 FD	CHKSQR	LDA	(\$FD),Y
OCBA OCBC	65 FD 85 FD		ADC STA	\$FD \$FD	OD8E OD90	C9 E9 F0 E1		CMP BEQ	#\$E9 CSQRCOL
OCBE	A5 FE		LDA	\$FE	0D90	4C 46 14		JMP	DEATH
0CC0 0CC2	69 00		ADC	#0	;				
0CC2	85 FE CA		sta Dex	\$FE	start o	f lizard rout	ne		
0CC5	10 EF		BPL	VRTADD	, 0D95	EE 37 03	I IZARD	INC	\$337
OCC7	A5 FD		LDA	\$FD	0D98	AD 37 03		LDA	\$337
0009	18		CLC	4000	OD9B	C9 02		CMP	#2
OCCA OCCD	6D 3B 03 85 FD		ADC STA	\$33B \$FD	OD9D OD9F	D0 2C A9 00		BNE LDA	EXITLZRD
0CCF	A5 FE		LDA	\$FE	ODA1	8D 37 03		STA	#0 \$337
OCD1	69 00		ADC	#0	ODA4	EE 38 03		INC	\$338
OCD3 OCD5	85 FE 60		STA	\$FE	ODA7	AD 38 03		LDA	\$338
0CD3	00		rts Brk		ODAA ODAC	C9 01 D0 1D		CMP BNE	#1 EXITLZRD
OCD7	00		BRK		ODAE	A9 00		LDA	#0
0CD8	AD OD DO SI		LDA	V+\$D	ODB0	8D 38 03		STA	\$338
OCDB OCDB	38 LV	/1	SEC	*4	ODB3 ODB5	A2 01	I ZDDCNTD	LDX	#1
OCDC	E9 31		SBC	#\$31	ODB8	BD 3C 03	LZRDCNTR	INC LDA	ILZRDSPD,X ILZRDSPD,X
OCDE	8D 3A 03		STA	\$33A	ODBB	DD CD 0D		CMP	ILSDATA-1,X
OCE1	AD OC DO		LDA	V+\$C	ODBE	DO 08		BNE	NEXTLZRÓ
OCE4 OCE4	4A		= LSR	*-1	ODCO ODC2	A9 00 9D 3C 03		LDA STA	#0 ILZRDSPD,X
						22 00 00		UIA	にといいひてひ,人

ODC5 20 EA OD	JSR	MOVELZRD	0E4A	C9 00	CMP	#0
ODC8 4C BC OE NEXTLZRD	JMP	NEXTLIZD	0E4C	FO OA	BEQ	LZRDUR
ODCB 4C 15 11 EXITLZRD	JMP	COBRA	OE4E	C9 60	CMP	#\$60
ODCE 18 1C 20 ILSDATA	.BYT	\$18,\$1C,\$20	0E50	FO 06	BEQ	LZRDUR
;			0E52	A9 85	LDA	#\$85
sound set-up			0E54	9D F8 07	STA	SPOINTER,X
;			0E57	60	RTS	
ODD1 A2 18 SOUNDSU	LDX	#\$18	0E58	A9 87 LZRDUR	LDA	#\$87
ODD3 A9 00	LDA	#0	0E5A	9D F8 07	STA	SPOINTER,X
ODD5 9D 00 D4 CLEARSID	STA	SID,X	OE5D	60 00 D2 OF CLZDD ID	RTS	CETY
ODD8 CA	DEX BPL	CLEARSID	0E5E	20 B3 OE CLZRDJD	JSR	SETY
ODD9 10 FA ODDB A9 FF	LDA	#\$FF	taka ti	ne determined locations fo	r whore t	ha lizard
ODDD 8D OF D4	STA	SID+15		d after the chosen direction		
ODEO A9 80	LDA	#\$80		ite them into a screen loca		ump, um
ODE2 8D 12 D4	STA	SID+\$12	:	to thom into a porcon room		
ODE5 A9 00	LDA	#0	0E61	AD 3A 03	LDA	\$33A
0DE7 4C 70 17	JMP	RNDMEM	0E64	38	SEC	
:			0E65	E9 2C	SBC	#\$2C
start of routine to handle 1 lizard	j		0E67	8D 3A 03	STA	\$33A
;			OE6A	AD 3B 03	LDA	\$33B
ODEA BD 40 03 MOVELZRD	LDA	\$340,X	0E6D	4A	LSR	
ODED DO OB	BNE	CLJUMP	0E6E	4A	LSR	
ODEF 20 5E 0E	JSR	CLZRDJD	0E6F	4A	LSR	
ODF2 OA	ASL		0E70	18	CLC	##C
ODF3 OA	ASL		0E71	69 OC 8D 3B 03	ADC STA	#\$C \$33B
ODF4 OA ODF5 OA	ASL		0E73 0E76	86 FC	STX	\$FC
ODF5 OA ODF6 OA	ASL ASL		0E78	20 AC OC	JSR	SLTOSL
ODF7 20 47 0E	JSR	SETLZRDP	0E7B	A6 FC	LDX	\$FC
ODFA BD 50 03 CLJUMP	LDA	\$350.X	:	110 10		4. 4
ODFD 8D 01 80	STA	DIRLJ	:check	if chosen direction for liza	rd jump	
0E00 FE 40 03	INC	\$340,X		nd it on a square		
0E03 BC 40 03	LDY	\$340,X	į	•		
0E06 C0 1E	CPY	#\$1E	0E7D	A0 00	LDY	#0
0E08 D0 06	BNE	LJND	0E7F	B1 FD	LDA	(\$FD),Y
0E0A A9 00	LDA	#0	0E81	C9 E9	CMP	#\$E9
0E0C 9D 40 03	STA	\$340,X	0E83	D0 D9	BNE	CLZRDJD
0E0F 60	RTS	A F	0E85	AD FF 03	LDA	\$3FF
0E10 86 05 LJND	STX	\$5 *5	0E88	60 86 05 RNDLJUMP	RTS STX	\$5
0E12 06 05 0E14 8E 4F 03	ASL STX	\$5 \$34F	0E89 0E8B	86 05 RNDLJUMP 20 97 17	JSR	GETRND
0E14 8E 4F 03	SIX	ФЭЧГ	0E8E	29 03	AND	#3
move lizard 1 pixel during jump			0E90	8D FF 03	STA	\$3FF
:			:	· · · · · · · · · · · · · · · · · · ·		*
0E17 98	TYA		;deterr	nine location where lizard	will end :	after jump
0E18 18	CLC		;			
0E19 6D 01 80	ADC	DIRLJ	0E93	AA ′	TAX	ADDV V
0E1C A8	TAY	INCODATA V	0E94	BD AB OE	LDA	ADDX,X
0E1D B9 F3 0C	LDA	JMPDATA,Y	0E97 0E98	18 79 01 D0	CLC ADC	V+1,Y
0E20 D0 0A 0E22 48	BNE PHA	LSM	0E9B	8D 3A 03	STA	\$33A
0E23 BD F8 07	LDA	SPOINTER,X	OE9E	BD AF OE	LDA	ADDY,X
0E26 29 FE	AND	#\$FE	0EA1	18	CLC	
0E28 9D F8 07	STA	SPOINTER,X	0EA2	79 00 D0	ADC	V,Y
0E2B 68	PLA		0EA5	8D 3B 03	STA	\$33B
0E2C AA LSM	TAX		0EA8	A6 05	LDX	\$ 5
0E2D A4 05	LDY	\$5 XDIR,X	0EAA	60	RTS	
0E2F BD 76 0C	LDA	XDIR,X	0EAB	F2 12 02 ADDX	.BYT	\$F2,\$12,\$2,\$2
0E32 18	CLC	WW	0EAF	12 F2 EA ADDY	.BYT	\$12,\$F2,\$EA,\$1A
0E33 79 00 D0	ADC	V,Y V,Y	0EB3 0EB5	86 05 SETY 06 05	STX ASL	\$5 \$5
0E36 99 00 D0 0E39 BD 81 0C	STA LDA	V,Y YDIR,X	OEB7	A4 05	LDY	\$5
0E3C 18	CLC	יטווקא	OEB9	4C 89 CE	JMP	RNDLJUMP
0E3D 79 01 D0	ADC	V+1,Y	:	30 02		
0E40 99 01 D0	STA	V+1,Y	;move	on to next lizard		
0E43 AE 4F 03	LDX	\$34F	;			
0E46 60	RTS		OEBC	E8 NEXTLIZD	INX	
·					CPX	
set lizard sprite pointer to match			OEBD	E0 04		#4 1.70000NE
,oct lizard opine pointer to mater	h directio	n of jump	0EBF	FO 03	BEQ	LZRDDONE
; 0E47 9D 50 03 SETLZRDP	h directio STA	n of jump \$350,X				

; :trar	sfer sprite data to new locat	ions		0FFF 1007	03 57 00 00 0E 6C	.BYT .BYT	3,87,0,3,155,0,3,171 0,14,108,0,14,175,1
0EC	-	LDX	#0	100F	BE BO 3A	.BYT	92,57 190,176,58,186,192,
OEC OEC	9 BD 7A 09 MDLOOP C 9D 00 20	LDA STA	SPRDAT1,X \$2000,X	1017	OE AA BO	.BYT	57,190,176 14,170,176,14,106,1
OEC OED		LDA STA	SPRDÁT5,X \$2100,X	101F	00 00 FC	.BYT	92,3,171
OED OED	5 BD E7 0E	LDA STA	SPRDAT9,X \$2200,X	1027	03 FF 00 SPRDAT14	.BYT	0,0,252,0,0,0,0,0 3,255,0,14,102,192,
OED OED	B BD A7 OF	LDA STA	SPRDAT12,X \$22C0,X	102F	B0 35 99	.BYT	58,170 176,53,153,112,53,8 5,112,13
OEE:	1 CA	DEX BNE	MDLOOP	1037	55 CO 03	.BYT	85,192,3,87,0,3,155 .0
OEE-		JMP	SOUNDSU	103F	03 9B 00	.BYT	3,155,0,3,171,0,3,15
spri	te data			1047	00 OE AC	.BYT	0,14,172,0,14,108,0, 14
ÖEE	7 00 FC 00 SPRDAT9	.BYT	0,252,0,3,171,0,14, 90	104F	AC 00 0E	.BYT	172,0,14,108,0,14,1 72.0
OEE	CO 39 AA	.BYT	192,57,170,176,58,1 70,176,234	1057	03 6B 00	.BYT	3,107,0,3,171,0,3,1 55
0EF	7 A9 AC EA	.BYT	169,172,234,170,17 2,234,170,172	105F 1067	00 00 EA 00 00 00 SPRDAT15	.BYT .BYT	0,0,234,192,0,63,0,0
0EFI	39 AA BO	.BYT	57,170,176,57,105,1	106F	00 00 00 SFRDAI 15	.BYT	0,0,0,0,0,0,0,48 0,0,236,0,3,171,0,3
050			76,14,86	1077	6B 00 03	.BYT	107,0,3,107,0,3,91,0
0F07	CO 03 AB	.BYT	192,3,171,0,0,252,0, 0	107F 1087	03 9B 00	.BYT	3,155,0,0,252,0,0,0
OFOR	: 00 00 00	.BYT	0,0,0,0,0,0,0	108F	00 00 00 00 00 00	.BYT .BYT	0,0,0,0,0,0,0
0F17		BYT	0,0,0,0,0,0,0,0	1097	00 00 00	.BYT	0,0,0,0,0,0,0,0 0,0,0,0,0,0,0
OF1F		BYT	0,0,0,0,0,0,0,0	109F	00 00 00	.BYT	0,0,0,0,0,0,0,0
0F27	00 FC 00 SPRDAT10	.BYT	0,252,0,3,171,0,14,1 50	deten	mine direction for cobra to		
OF2F	CO 3A A9	.BYT	192,58,169,176,58,1 70,176,234	10A7	AD 01 DO COBRADIR	LDA	V+1
0F37	' AA AC EA	.BYT	170,172,234,170,17 2,234,170,172	10AA 10AB	18 69 08	CLC	#8
OF3F	39 AA BO	.BYT	57,170,176,57,106,1 76,14,90	10AD 10AE	38 ED F6 03	SEC SBC	\$3F6
0F47	CO 03 AB	.BYT	192,3,171,0,0,252,0, 0	10B1 10B3	F0 08 90 03	BEQ BCC	CHKHORZ CDOWN
OF4F		.BYT	0,0,0,0,0,0,0	10B5	A9 00	LDA	#0
0F57		.BYT	0,0,0,0,0,0,0	10B7	60	RTS	
OF5F		.BYT	0,0,0,0,0,0,0,0	10B8	A9 20 CDOWN	LDA	#\$20
0F67		.BYT	0,0,0,0,0,0,0	10BA	60	RTS	
OF6F		.BYT	0,3,243,252,62,174, 171,239	10BB 10BE	AD 00 DO CHKHORZ 18	LDA CLC	V
0F77	FA 65 EA	.BYT	250,101,234,170,16	10BF	69 02	ADC	#2
OF7F	3F AA FO	.BYT	9,234,234,175 63,170,240,58,175,0	10C1 10C2	38 ED F5 03	SEC SBC	POLE
	01 70010	.011	,15,240	1002	90 03	BCC	\$3F5 CRIGHT
0F87	00 00 00	.BYT	0,0,0,0,0,0,0,0	10C7	A9 40	LDA	#\$40
OF8F		.BYT	0,0,0,0,0,0,0,0	1009	60	RTS	410
0F97	00 00 00	.BYT	0,0,0,0,0,0,0,0	10CA	A9 60 CRIGHT	LDA	#\$60
OF9F		.BYT	0,0,0,0,0,0,0	10CC	· 60	rts	
OFA7 OFAF	00 00 00 SPRDAT12 00 3A BC	.BYT .BYT	0,0,0,0,0,0,15,192 0,58,188,0,14,171,2	; ;see if	cobra needs new direction	n to jump	
OFB7	AE AB EF	.BYT	52,63 174,171,239,250,10	; 10CD	AD FO 03 CBRASTRT	LDA	\$3F0
OFBF	EA EA AF	.BYT	1,234,170,169 234,234,175,63,170,	10D0 10D2	D0 06 20 36 11	BNE JSR	CONTCJMP FINDCDIR
OFC7	00 OE AC	.BYT	240,14,171 0,14,172,0,58,240,0,	10D5 10D8	8D 02 80 EE FO 03 CONTCJMP	STA INC	DIRCJ \$3F0
OFCF	00 00 00	.BYT	15 0,0,0,0,0,0,0,0	10DB 10DE	AE FO 03 EO 20	LDX CPX	\$3F0 #\$20
OFD7	00 00 00	.BYT	0,0,0,0,0,0,0,0	10E0	FO 2B	BEQ	CJDONE
OFDF		.BYT	0.0.0.0.0.0.0	10E2	8A	TXA	
OFE7 OFEF	00 00 00 SPRDAT13 00 0E 66	.BYT .BYT	0,0,0,0,252,0,3,171 0,14,102,192,62,170	10E3 10E4	18 6D 02 80	CLC	DIRCJ
			,240,53	10E7	AA	TAX	DIITOU
OFF7	A9 70 35	.BYT	169,112,53,153,112, 13,85,192	10E8 10EB	BD F3 OC AA	LDA TAX	JMPDATA,X
					*	• •	

10EC DO 08 BNE 10EE AD F8 07 LDA	CJND SPOINTER	;give hawk random row to fly acro	oss
10F1 29 8C AND	#\$8C	1179 20 97 17 RNDROW	JSR GETRND
10F3 8D F8 07 STA	SPOINTER	117C 29 07 117E C9 06	AND #7 CMP #6
move cobra 1 pixel of jump		1180 B0 F7 1182 OA	BCS RNDROW ASL
, 10F6 BD 76 CC CJND LDA	XDIR,X	1183 OA	ASL
10F9 18 CLC 10FA 6D 00 D0 ADC	v	1184 OA 1185 OA	ASL ASL
10FD 8D 00 D0 STA	Ÿ	1186 18	CLC
1100 BD 81 0C LDA 1103 18 CLC	YDIR,X	1187 69 4C 1189 8D 09 D0	ADC #\$4C STA V+9
1103 18 CLC 1104 6D 01 D0 ADC	V+1	118C 4C 67 11	JMP EXITHAWK
1107 8D 01 D0 STA 110A 4C 4E 11 EXITCBRA JMP	V+1 HAWK	118F EE FC 03 ANMTHAWK 1192 AD FC 03	INC \$3FC LDA \$3FC
110D A9 00 CJDONE LDA	#0	1195 C9 20	CMP #\$20
110F 8D F0 03 STA 1112 4C 0A 11 JMP	\$3F0 EXITCBRA	1197 D0 D1	BNE MOVEHAWK
;	EXITODIA	; ;animate hawk	
start of cobra routine		; 1199 AD FC 07	LDA SPOINTER+4
, 1115 EE F1 03 COBRA INC	\$3F1	119C 49 01	EOR #1
1118 AD F1 03 LDA 111B C9 0A CMP	\$3F1 #\$A	119E 8D FC 07 11A1 A9 00	STA SPOINTER+4 LDA #0
111D DO EB BNE	EXITCBRA	11A3 8D FC 03	STA \$3FC
111F A9 00 LDA 1121 8D F1 03 STA	#0 \$3F1	11A6 4C 6A 11	JMP MOVEHAWK
1124 EE F2 03 INC	\$3F2	;make each movement of bird twi	ce if super jump is on
1127 AD F2 03 LDA 112A C9 05 CMP	\$3F2 #5	; 11A9 AD FE 03 SUPERJMP	LDA SPRJMP
112C DO DC BNE	EXITCBRA	11AC C9 01	CMP #1
112E A9 00 LDA 1130 8D F2 03 STA	#0 \$3F2	11AE FO 03 11BO 4C 43 0C ICNTR	BEQ SUPERON JMP BJCNTR
1133 4C CD 10 JMP	CBRASTRT	11B3 EE FD 03 SUPERON	INC \$3FD
1136 A9 8D FINDCDIR LDA 1138 8D F8 07 STA	#\$8D Spointer	11B6 AD FD 03 11B9 29 01	LDA \$3FD AND #1
113B 4C A7 10 JMP	COBRADIR	11BB F0 F3	BEQ ICNTR
; ;store position of bird from last square i	t was on	11BD 4C 46 0C	JMP NOINC
for cobra to jump toward	(Was Oil	check button for super jump	
113E AD OC DO MEMBIRDL LDA	V+\$C	, 11CO A9 OO CHKBTTN	LDA #0
1141 8D F5 03 STA 1144 AD 0D D0 LDA	\$3F5 V+\$D	11C2 8D FE 03 11C5 AD 00 DC	STA \$3FE LDA JOYSTICK
1147 8D F6 03 STA	\$3F6	11C8 29 10	AND #\$10
114A AD 00 DC LDA 114D 60 RTS	JOYSTICK	11CA DO 03 11CC EE FE 03	BNE NOTPRSSD INC SPRJMP
;		11CF 4C 3E 11 NOTPRSSD	JMP MEMBIRDL
start of hawk routine		; ;start of ball routine	
114E EE FA 03 HAWK INC	\$3FA \$3FA	; 11D2 EE F3 03 BALL	INC \$3F3
1151 AD FA 03 LDA 1154 C9 06 CMP		11D5 AD F3 03	LDA \$3F3
1156 DO OF BNE	EXITHAWK	11D8 C9 05 11DA D0 0F	CMP #5 BNE EXITBALL
1158 A9 00 LDA 115A 8D FA 03 STA	#0 \$3FA	11DC A9 00	LDA #0
115D EE FB 03 INC 1160 AD FB 03 LDA	\$3FB \$3FB	11DE 8D F3 03 11E1 EE F4 03	STA \$3F3 INC \$3F4
1163 C9 05 CMP	#5	11E4 AD F4 03	LDA \$3F4
1165 FO 28 BEQ 1167 4C D2 11 EXITHAWK JMP	ANMTHAWK BALL	11E7 C9 OA 11E9 FO O3	CMP #\$A BEQ MOVEBALL
116A A9 00 MOVEHAWK LDA	#0	11EB 4C C7 OB EXITBALL	JMP BIRD
116C 8D FB 03 STA	\$3FB	11EE A9 00 MOVEBALL 11F0 8D F4 03	LDA #0 STA \$3F4
move hawk		; ;move ball down	OIA QUIT
116F EE 08 DO INC	V+8	•	
1172 AD 08 DO LDA 1175 C9 01 CMP	V+8 P #1	11F3 EE OB DO 11F6 4C 39 12	INC V+\$B JMP CHKBOT
1177 DO EE BNE	EXITHAWK	11F9 C9 01 MOVELEFT	CMP #1
;		11FB F0 21	BEQ RNDCOL

11FD	C9 48	CMP	#\$48	127F	60	RTS	
11FF ;	90 1A	BCC	NOLEFT	; ;print	demo message		
,move	ball left			1200	AO OS DEMONICOS	LDA	ше
1201	CE OA DO BALLLEET	DEC	V+\$A	1280 1282 1284	A9 06 DEMOMSSG 85 D3	STA	#6 \$D3
1204	CE OA DO BALLLEFT EE EF 03 AD EF 03	INC	V+\$A \$3EF	1284	A9 16	LDA	#\$16
1207	EE EF 03 AD EF 03 C9 08	LDA	\$3EF	1286	85 D6	STA	\$D6
120A	C9 08	CMP	#8	1288	20 10 E5	JSR	PCURSOR
120C	DO OD	BNE	NOLEFT	128B	A2 00		#0
;	A- L-0			128D	A2 00 BD 9B 12 DMLOOP	LDA	DDMSSG,X
;anıma	ite ball			1290 1293	20 DZ FF	JON	PRINT
, 120E	AD FD 07	ΙDΔ	SPOINTER+5	1293	E8 E0 3A	INX	#\$3A
1211	49 01	EOR	#1	1206	D0 F5	CPX BNE	DMLOOP
1213	AD FD 07 49 01 8D FD 07 A9 00	STA	SPOINTER+5	1298	4C 3B 15	JMP	DEMOSET
1216			#U	129B	08 8E 9E DDMSSG	.BYT .ASC	8,\$8E,\$9E
1218	8D EF 03	STA	\$3EF	129E	55 53 45	.asc	"USE STICK TO SE
121B	4C EB 11 NOLEFT	JMP	EXITBALL	4007	00.00.00	D) 47	LECT LEVEL"
dive b	all random column to roll	down		12B7	OD 20 20	.BYT	13,32,32,32,32,32,3
,g.,c	all random column to roll	uomii		12BF	50 52 45	.ASC	2,32 "PRESS TRIGGE
121E 1221	20 97 17 RNDCOL	JSR	GETRND		00 0L 40	.Au	R TO START"
1221	29 07	AND	#7	;			
1223	C9 07	CMP	#7	;start	of demo routine		
1225	B0 F7	BCS	RNDCOL				
1227 1228	AA A9 00	TAX	#0	12D5 12D8	20 48 15 DEMO	JSR	LZRDDEMO
122A	18 BCOL	CLC	#0	12DA	DO OR	AND	#\$10 CHKSTICK
122B 122D 122E	69 18	LDA CLC ADC	#\$18	12DC	20 4A 13	JSR	CLEARBOT
122D	CA	DEX	4	12DF	A9 40	LDA	#\$40
122E	10 FA	BPL CLC ADC	BCOL	12E1	8D 15 D0	STA	SPRITEON
1230	18	CLC		12E4	4C 24 17	JMP	BLANKSCR
1231 1233	69 58 8D 0A D0	AUC	#\$58	12E7	AD 00 DC CHKSTICK	LDA	JOYSTICK
1236	4C 01 12	STA JMP	V T DA	12EA	20 48 15 DEMO 29 10 D0 0B 20 4A 13 A9 40 8D 15 D0 4C 24 17 AD 00 DC CHKSTICK 29 0F 49 0F	EOR	#\$F
1239	AD OB DO CHKBOT	JMP LDA CMP BNE I DA	V+\$B	12FF	49 UF 29 U3	AND	#\$F #3
123C	C9 A8	CMP	#\$A8	12F0	29 03 C9 01	CMP	#1
123E	DO B9	BNE	MOVELEFT	12F2	D0 0D	BNE	LVLDOWN
1240		LDA	#1	12F4	AD E1 03	LDA	LEVEL
1242 1245	8D 0B D0 4C 1E 12	SIA	A+2B	12F7	C9 0F	CMP	#\$F
1248	CLEVEL	JMP ==	*+3	12F9	FO DA EE E1 03	BEQ INC	DEMO LEVEL
1248	CLEVEL1	_	*+14	12FF	4C OF 13	JMP	PRINTLYL
;			. , ,	1301	C9 02 LVLDOWN	CMP	#2
;check	if square has changed to f	inal colo	#\$18 BCOL #\$58 V+\$A BALLLEFT V+\$B #\$A8 MOVELEFT #1 V+\$B RNDCOL *+3 *+14	1303	D0 D0	BNE	DEMO
1040	00.0F 0UV001.D	AND	u A F	1305	AD E1 03	LDA	LEVEL
1248 124A	29 OF CHKCOLR C9 00	AND CMP	#\$1	1308 130A	C9 02 90 C9	CMP	#2
124C	D0 03	BNE	INCCOL B	130C	CE E1 03	BCC DEC	DEMO LEVEL
124E	4C 89 0D	JMP	CCDONE	:	OL L1 00	DLO	LLVLL
1251	85 04 INCCOLR	STA	#\$F #0 INCCOLR CCDONE \$4 \$4 #0 NFC	print l	evel to screen		
1253	E6 04	INC	\$4	;			
1255 1257	C9 00 D0 0D	CMP BNE	#U	130F	ad e1 03 printlyl C9 0a	LDA	LEVEL
. 1237	טט טט	DIVE	NFC	1312 1314	C9 OA BO OE	CMP BCS	#\$A GRTR10
;check	if board is complete			1316	18	CLC	uniniu
;				1317	69 30	ADC	#\$30
1259	EE D0 03	INC	SQRCOMP	1319	8D C8 06	STA	\$6C8
125C 125F	AD DO 03	LDA	SQRCOMP	131C	A9 30	LDA	#\$30
1261	C9 7E D0 03	CMP BNE	#\$7E NFC	131E 1321	8D C7 06 4C D5 12 JTR1	STA	\$607
1263	40.00.40	JMP	BRDCMPLT	1324	18 GRTR10	JMP CLC	DEMO
1263 1266 1269 126B 126D 1270	4C 81 0D NFC	JMP	CCC	1325	69 26	ADC	#\$26
1269	A5 04 BRDCMPLT	LDA	\$4	1325 1327	8D C8 06	STA	\$6C8
126B	91 FD	STA	(\$FD),Y	132A	AQ 21	LDA	#\$31
120U 1270	20 01 17 4C 55 13	JSR JMP	INCSCORE BCPAUSE	1320	8D U7 06	STA	\$607
1273	AD E1 03 SETCHK	LDA	I EVEI	1332	8D C7 06 4C D5 12 JTR2 EE E3 03 DP1	JMP INC	DEMO \$3E3
1276	8D 56 12	STA	CLEVEL1	132A 132C 132F 1332 1335	טט רם	BNE	DP1
1279	8D 4B 12	STA	CLEVEL	100/	EE E4 03 DEMOPAUS AD E4 03	INC	\$3E4
127C	4C 82 13	JMP	ADJCMPL	133A	AD E4 03	LDA	\$3E4

133D C9 FF 133F D0 F6 1341 A9 08 1343 8D E4 03 1346 AD 00 DC 1349 60	CMP	#\$FF	13CC	A9 00 A2 CB 9D 34 03 CTB2 CA	I DA	#0
133F D0 F6	BNE	#\$FF DEMOPAUS #8 \$3E4 JOYSTICK	13CE	A2 CB	IDX	#\$CB
1341 A9 08	LDA	#8	13D0	9D 34 03 CTB2	STA	\$334.X
1343 8D E4 03	STA	\$3F4	13D3	CA	DEX	ΨΟΟΤΙΛ
1346 AD 00 DC	LDA	INVSTICK	13D4	FO FF	CPY	#\$FF
1349 60	RTS	OUTOTION	13D6	DO F8	BNE	ČTB2
	1110		13D8	D0 F8 A5 04 8D E1 03 4C 62 15 JTR3	INA	\$4
;clear bottom 2 rows of screen			13DA	8D E1 03	STA	LEVEL
Clear bottom 2 lows or screen			13DA	4C 60 15 ITD2	IMD	SETSPEED
, 134A A2 4F CLEARBOT	INV	#\$4F #\$20 \$770,X CBLOOP	יטטטי	40 02 10 3110	JIVIP	SEISPEED
134A A2 4F CLEARBOT 134C A9 20	LDA	# 9 4F		Y		
1040 A9 20	LDA STA DEX BPL RTS	#\$2U	;print	'get ready"		
134E 9D 70 07 CBLOOP	SIA	\$17U,X	,,,,,,	40.0F OFTDEADY		A.F.
1351 CA	DEX		13E0	A9 OE GETREADY	LDA	#\$E
1352 10 FA	BPL	CBLOOP	13E2	85 D3	SIA	\$D3
1354 60	RTS		13E4	A9 16	LDA	#\$16
;			13E6	85 D6	STA	\$D6
;short pause after board is comp	olete		13E8 13EB	20 4A 13	JSR	CLEARBOT
.			13EB	AS D3 A9 16 85 D6 20 4A 13 20 10 E5 A2 00 BD 0E 14 GRLOOP 20 D2 FF	JSR	PCURSOR
1355 EE E3 03 BCPAUSE	INC	\$3E3	13EE	A2 00	LDX	#0
1358 D0 FB	BNE	BCPAUSE	13F0	BD 0E 14 GRLOOP	LDA	Datready,X
135A EE E4 03	INC	\$3E4	13F3	20 D2 FF	JSR	PRINT
135D D0 F6	BNE	BCPAUSE	13F6	E8	INX	
135F EE E5 03	INC	\$3E5	13F7	FO OA	CPX	#\$A
1362 AD E5 03	I DA	\$3F5	13F9	DO F5	BNF	GRLOOP
1365 C9 02	CMP	#2	13FB	A9 60	IDA	#\$60
1367 DO EC	BNE	RCPALISE	13FD	8D 6E 13	STA	STR1
1369 A9 00	IDA	#0	1400	20 55 13	ICD	BCPAUSE
136B 8D E5 03	CTA	. \$255	1/02	AQ 9D	LDV	#\$8D
136E 8D 15 DO STR1	CTA	CDDITEON	1405	8D 8E 12	CTA	STR1
1371 4C 9C 13	IMD	\$3E3 BCPAUSE \$3E4 BCPAUSE \$3E5 \$3E5 #2 BCPAUSE #0 \$3E5 SPRITEON LEVELINC LEVEL LUNINC LEVEL SETCHK PRNEWLVL	1400	E8 E0 OA DO F5 A9 60 8D 6E 13 20 55 13 A9 8D 6E 13 20 BA 14 4C 73 12	ICD	CHANGETO
1374 AD E1 03 INCLEVEL	JIVIE	LEVELING	1400	4C 73 12	JOH	
1377 DO 03	LUA	LEVEL	1405	9E DATREADY	JMP	SETCHK
1377 DU U3	RIVE	LINING	140E	9E DATREADY	.BYI	\$9E
1379 EE E1 03	INC	LEVEL	1401	47 45 54	.ASC	"GET READY"
137C 20 73 12 LNINC	JSR	SETCHK	·			
137F 4C A9 13	JMP	PRINCHALAL	;bira ra	an aner deam		
13/F 4C A9 13 1382 EE 4B 12 ADJCMPL	JMP INC	PRNEWLVL CLEVEL	:			
13/F 4C A9 13 1382 EE 4B 12 ADJCMPL 1385 C9 0F	JMP INC CMP	CLEVEL #\$F	:		INC	\$3D4
137F 4C A9 13 1382 EE 4B 12 ADJCMPL 1385 C9 0F 1387 D0 05	JMP INC CMP BNE	CLEVEL #\$F LEAVEIT	:		INC BNE	\$3D4 BIRDFALL
1382 EE 4B 12 ADJCMPL 1385 C9 0F 1387 D0 05 1389 A9 00	JMP INC CMP BNE LDA	CLEVEL #\$F LEAVEIT #0	:		INC BNE INC	BIRDFALL \$3D5
13/F 4C A9 13 1382 EE 4B 12 ADJCMPL 1385 C9 0F 1387 D0 05 1389 A9 00 1388 8D 4B 12	JMP INC CMP BNE LDA STA	CLEVEL #\$F LEAVEIT #0 CLEVEL	:		INC BNE INC LDA	BIRDFALL
1382 EE 4B 12 ADJCMPL 1385 C9 0F 1387 D0 05 1389 A9 00 1388 8D 4B 12 138E 60 LEAVEIT	JMP INC CMP BNE LDA STA RTS	CLEVEL PRINCEVEL #\$F LEA/EIT #0 CLEVEL	:		INC BNE INC LDA CMP	BIRDFALL \$3D5
137 4C A9 13 1382 EE 48 12 ADJCMPL 1385 C9 0F 1387 D0 05 1389 A9 00 1388 8D 48 12 1386 60 LEAVEIT	JMP INC CMP BNE LDA STA RTS	#\$F LEAVEIT #0 CLEVEL	:		INC BNE INC LDA CMP BNE	BIRDFALL \$3D5 \$3D5 #3
1382 EE 4B 12 ADJCMPL 1385 C9 0F 1387 D0 05 1389 A9 00 138B 8D 4B 12	JMP INC CMP BNE LDA STA RTS	CLEVEL #\$F LEA/EIT #0 CLEVEL	:		INC BNE INC LDA CMP BNE LDA	BIRDFALL \$3D5 \$3D5
,p o	JMP INC CMP BNE LDA STA RTS	CLEVEL #\$F LEA/EIT #0 CLEVEL	:		INC BNE INC LDA CMP BNE LDA STA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0
,p o	JMP INC CMP BNE LDA STA RTS	CLEVEL #\$F LEA/EIT #0 CLEVEL	:		INC BNE INC LDA CMP BNE LDA STA INC	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5
,p o	JMP INC CMP BNE LDA STA RTS	CLEVEL #\$F LEA/EIT #0 CLEVEL	:		INC BNE INC LDA CMP BNE LDA STA INC LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D
,p o	JMP INC CMP BNE LDA STA RTS	CLEVEL #\$F LEA/EIT #0 CLEVEL	:		INC BNE INC LDA CMP BNE LDA STA INC LDA FOR	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D
,p o	JMP INC CMP BNE LDA STA RTS	CLEVEL #\$F LEA/EIT #0 CLEVEL	:		INC BNE INC LDA CMP BNE LDA STA INC LDA EOR STA	BIRDFALL \$305 \$305 #3 BIRDFALL #0 \$305 V+\$D V+\$D #\$FF
,p o	JMP INC CMP BNE LDA STA RTS	CLEVEL #\$F LEA/EIT #0 CLEVEL	:		INC BNE INC LDA CMP BNE LDA STA INC LDA EOR STA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D #\$FF \$ID+\$F
,p o	JMP INC CMP BNE LDA STA RTS	CLEVEL #\$F LEA/EIT #0 CLEVEL	:		INC BNE INC LDA CMP BNE LDA STA INC LDA EOR STA LDA	BIRDFALL \$305 \$305 #3 BIRDFALL #0 \$305 V+\$D V+\$D #\$FF SID+\$F V+\$D
,p o	JMP INC CMP BNE LDA STA RTS	CLEVEL #\$F LEA/EIT #0 CLEVEL	:		INC BNE INC LDA CMP BNE LDA STA INC LDA EOR STA LDA CMP	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$D V+\$F SID+\$F V+\$D W\$FF
,p o	JMP INC CMP BNE LDA STA RTS LDA JSR LDA JSR JSR JMP	CLEVEL #\$F LEA/EIT #0 CLEVEL	:		INC BNE INC LDA CMP BNE LDA STA INC LDA CMP BNE BNE	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$D V+\$D W\$FF SID+\$F V+\$D #\$FF BIRDFALL
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC BNE INC LDA CMP BNE LDA STA LDA CMP BNE LDA	BIRDFALL \$3D5 \$3D5 \$3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$D #\$FF V+\$D #\$FF BIRDFALL #0
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC BNE INC LDA CMP BNE LDA STA LDA CMP BNE LDA CMP BNE LDA STA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$D V+\$P SID+\$F V+\$D W\$FF BIRDFALL #0 PRIORITY
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC BNE INC LDA CMP BNE LDA STA INC LDA EOR STA LDA CMP BNE LDA STA LDA STA LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$F SID+\$F V+\$D #\$FF BIRDFALL #0 PRIORITY LOSELIFE
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC BNE INC LDA STA INC LDA STA LDA EOR STA LDA STA LDA STA LDA STA LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D W\$FF SID+\$F V+\$D #\$FF BIRDFALL #0 PRIORITY LOSELIFE #840
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LDA CMP BNE LDA STA INC LDA CMP BNE LDA STA JMP LDA STA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$P V+\$D V+\$F SID+\$F BIRDFALL #0 PRIORITY LOSELIFE #\$40 PRIORITY
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LDA CMP BNE LDA STA INC LDA CMP BNE LDA STA JMP LDA STA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$P SID+\$F SID+\$F SID+\$F BIRDFALL #0 PRIORITY LOSELIFE #\$40 PRIORITY BIRDFALL
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LDA CMP BNE LDA STA LDA EOR STA LDA STAP LDA STAP LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$P W\$FF SID+\$F V+\$D #\$FF BIRDFALL #0 PRIORITY LOSELIFE #440 PRIORITY BIRDFALL SQRCOMP
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LDA CMP BNE LDA STA INC LDA STA LDA STA JMP LDA STA JMP LDA STA JMP LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D #\$FF SID+\$F V+\$D #\$FF BIRDFALL #0 PRIORITY LOSELIFE #\$40 PRIORITY BIRDFALL SQRCOMP \$FC
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LDA CMP BNE LDA STA INC LDA STA LDA STA JMP LDA STA JMP LDA STA JMP LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$P SID+\$F SID+\$F SID+\$F PRIORITY LOSELIFE #\$40 PRIORITY BIRDFALL SQRCOMP \$FC #\$60
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LDA CMP BNE LDA STA INC LDA STA LDA STA JMP LDA STA JMP LDA STA JMP LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$D #\$FF SID+\$F V+\$D #\$FF BIRDFALL #0 PRIORITY LOSELIFE #440 PRIORITY BIRDFALL SQRCOMP \$FC #\$60 JTR3
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LDA CMP BNE LDA STA INC LDA STA LDA STA JMP LDA STA JMP LDA STA JMP LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D #\$FF SID+\$F V+\$D #\$FF BIRDFALL #0 PRIORITY LOSELIFE #\$40 PRIORITY BIRDFALL \$GRCOMP \$FC #\$60 JTR3 PRIEWLVL
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LDA CMP BNE LDA STA INC LDA STA LDA STA JMP LDA STA JMP LDA STA JMP LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$P SID+\$F SID+\$F BIRDFALL #0 PRIORITY LOSELIFE #\$40 PRIORITY BIRDFALL SQRCOMP \$FC #\$60 JTR3 PRNEWLVL #\$4C
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LDA CMP BNE LDA STA INC LDA STA LDA STA JMP LDA STA JMP LDA STA JMP LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$D #\$FF SID+\$F V+\$D #\$FF BIRDFALL #0 PRIORITY LOSELIFE #40 PRIORITY BIRDFALL SQRCOMP \$FC #\$60 JTR3 PRNEWLVL #\$44 JTR3
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LDA CMP BNE LDA STA INC LDA STA LDA STA JMP LDA STA JMP LDA STA JMP LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D #\$FF SID+\$F V+\$D #\$FF BIRDFALL #0 PRIORITY LOSELIFE #\$40 PRIORITY BIRDFALL \$GRCOMP \$FC #\$60 JTR3 PRNEWLVL #\$4C JTR3 \$FC
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LDA CMP BNE LDA STA INC LDA STA LDA STA JMP LDA STA JMP LDA STA JMP LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$P SID+\$F SID+\$F BIRDFALL #0 PRIORITY LOSELIFE #\$40 PRIORITY BIRDFALL SQRCOMP \$FC #\$60 JTR3 PRIVEVLVL #\$4C JTR3 \$FC SQRCOMP
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LOMP BNE STA LOMP LOAD STA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$D #\$FF SID+\$F V+\$D #\$FF BIRDFALL #0 PRIORITY LOSELIFE #340 PRIORITY BIRDFALL SQRCOMP \$FC #\$60 JTR3 PRNEWLVL #\$4C JTR3 \$FC SQRCOMP BIRD
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES	1418 141B 141D 1420 1423 1425 1427 1429 142C 142F 1432 1434 1437 143A 143C	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INC LDA CMP BNE LDA STA INC LDA STA LDA STA JMP LDA STA JMP LDA STA JMP LDA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$P SID+\$F SID+\$F BIRDFALL #0 PRIORITY LOSELIFE #\$40 PRIORITY BIRDFALL SQRCOMP \$FC #\$60 JTR3 PRIVEVLVL #\$4C JTR3 \$FC SQRCOMP
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PPRINT *+1 #\$35 PRINT HRZLINES GRID LEVEL #\$F PRNEWLVL LEVEL #\$F PRNEWLVL LEVEL #\$60 JTR1 JTR2 JTR2 GETREADY INCLIVES #\$F	1418 1410 1420 1423 1425 1427 1426 1427 1428 1434 1434 1436 1448 1448 1448 1448 1451 1453 1455 1458 1458 1458 1468 1468 1468	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 BD D5 03 EE 0D D0 AD 0D D0 49 FF BD DA AD 0D D0 C9 FF D0 DA A9 00 BD 18 D0 4C 68 14 A9 40 DEATH BD 18 D0 4C 18 14 AD D0 03 NEWSTART 85 FC BD DD 13 20 A9 13 A9 4C BD DD 13 A5 FC BD DD 13 A5 C7 08 BD D0 03 AC C7 08 BD 15 D0 LOSELIFE	INCA LOMP BNE ASTA STA ASTA LOMP BNE ASTA LOMP LOTA STA ASTA LOTA STA ASTA STA ASTA A	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$P SID+\$F SID+\$F SID+\$F BIRDFALL #0 PO PRIORITY LOSELIFE #\$40 PRIORITY BIRDFALL SQRCOMP \$FC #\$60 JTR3 FC \$GRCOMP BIRD SPRITEON
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES GRID LEVEL #\$F PRNEWLVL LEVEL #\$60 JTR1 JTR2 JTR1 JTR2 #\$4C JTR1 JTR2 #\$4C JTR1 JTR2 #\$7F PRINTLYL #\$4C JTR1 JTR2 #\$7F PRINTLYL	1418 1410 1420 1423 1425 1427 1426 1427 1428 1434 1434 1436 1448 1448 1448 1448 1451 1453 1455 1458 1458 1458 1468 1468 1468	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 8D D5 03 EE 0D D0 AD 0D D0 49 FF 8D 0F D4 AD 0D D0 C9 FF D0 DA	INCA LOMP BNE ASTA STA ASTA LOMP BNE ASTA LOMP LOTA STA ASTA LOTA STA ASTA STA ASTA A	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$P SID+\$F SID+\$F SID+\$F BIRDFALL #0 PO PRIORITY LOSELIFE #\$40 PRIORITY BIRDFALL SQRCOMP \$FC #\$60 JTR3 FC \$GRCOMP BIRD SPRITEON
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1396 20 D2 FF 1399 4C 11 09	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PPRINT *+1 #\$35 PRINT HRZLINES GRID LEVEL #\$F PRNEWLVL LEVEL #\$F PRNEWLVL LEVEL #\$60 JTR1 JTR2 JTR2 GETREADY INCLIVES #\$F	1418 1410 1420 1423 1425 1427 1426 1427 1428 1434 1434 1436 1448 1448 1448 1448 1451 1453 1455 1458 1458 1458 1468 1468 1468	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 BD D5 03 EE 0D D0 AD 0D D0 49 FF BD DA AD 0D D0 C9 FF D0 DA A9 00 BD 18 D0 4C 68 14 A9 40 DEATH BD 18 D0 4C 18 14 AD D0 03 NEWSTART 85 FC BD DD 13 20 A9 13 A9 4C BD DD 13 A5 FC BD DD 13 A5 C7 08 BD D0 03 AC C7 08 BD 15 D0 LOSELIFE	INCA LOMP BNE ASTA STA ASTA LOMP BNE ASTA LOMP LOTA STA ASTA LOTA STA ASTA STA ASTA A	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$P SID+\$F SID+\$F SID+\$F BIRDFALL #0 PO PRIORITY LOSELIFE #\$40 PRIORITY BIRDFALL SQRCOMP \$FC #\$60 JTR3 FC \$GRCOMP BIRD SPRITEON
138F A9 30 PRINTLVS 1391 20 D2 FF 1394 A9 35 1394 A9 35 1396 20 D2 FF 1399 4C 11 09 1396 20 D2 FF 1399 4C 11 09 1397 AD E1 03 1344 F0 03 13A4 F0 03 13A4 F0 03 13A4 F0 03 13A4 F0 03 13A5 EE E1 03 13A6 EE E1 03 13A9 A9 60 PRNEWLVL 13AB 8D 21 13 13BB 2D 2F 13 13BB 4D 2F 13	LDA JSR = LDA JSR JMP	CLEVEL #\$F LEAVEIT #0 CLEVEL *+1 #\$30 PRINT *+1 #\$35 PRINT HRZLINES GRID LEVEL #\$F PRNEWLVL LEVEL #\$60 JTR1 JTR2 JTR1 JTR2 #\$4C JTR1 JTR2 #\$4C JTR1 JTR2 #\$7F PRINTLYL #\$4C JTR1 JTR2 #\$7F PRINTLYL	1418 1410 1420 1423 1425 1427 1426 1426 1432 1434 1436 1436 1448 1448 1448 1448 1458 1458 1458 1458	EE D4 03 BIRDFALL D0 FB EE D5 03 AD D5 03 C9 03 D0 F1 A9 00 BD D5 03 EE 0D D0 AD 0D D0 49 FF BD DA AD 0D D0 C9 FF D0 DA A9 00 BD 18 D0 4C 68 14 A9 40 DEATH BD 18 D0 4C 18 14 AD D0 03 NEWSTART 85 FC BD DD 13 20 A9 13 A9 4C BD DD 13 A5 FC BD DD 13 A5 C7 08 BD D0 03 AC C7 08 BD 15 D0 LOSELIFE	INCA LOMP BNEA STA A LOMP BNEA LOTA STA A LOTA STA STA A LOTA STA STA STA STA A LOTA STA STA STA STA STA STA STA STA STA STA	BIRDFALL \$3D5 \$3D5 #3 BIRDFALL #0 \$3D5 V+\$D V+\$D V+\$P SID+\$F SID+\$F SID+\$F BIRDFALL #0 PO PRIORITY LOSELIFE #\$40 PRIORITY BIRDFALL SQRCOMP \$FC #\$60 JTR3 FC \$GRCOMP BIRD SPRITEON

146E							
	C9 30	CMP	#\$30	1512	E8	INX	
1470	DO 15	BNE	LIVES1	1513	EO OA	CPX	#\$A
1472	AD 17 07	LDA	\$717	1515	D0 F5	BNE	GOLOOP
1475	C9 30	CMP	#\$30	1517	ee D7 03 Gopause	INC	\$3D7
1477	D0 03	BNE	LIVES2	151A	DO FB	BNE	GOPAUSE
1479	4C FC 14	JMP	GAMEOVER	151C	EE D8 03	INC	\$3D8
147C	A9 39 LIVES2	LDA	#\$39	151F	D0 F6	BNE	GOPAUSE
147E	8D 18 07	STA	\$718	1521	EE D9 03	INC	\$3D9
1481	CE 17 07	DEC	\$717	1524	AD D9 03	LDA	\$3D9
1484	4C 8A 14	JMP	STRLIVES	1527	C9 05	CMP	#5
1487	CE 18 07 LIVES1	DEC	\$718	1529	DO EC	BNE	GOPAUSE
148A	A9 40 STRLIVES	LDA	#\$40	i.,			
148C	8D 15 D0	STA	SPRITEON	;start (game from beginning		
148F	A9 A9	LDA	#\$A9	;			
1491	8D 0C D0	STA	V+\$C	152B	A2 00 VRESTORE	LDX	#0
1494	A9 9E	LDA	#\$9E	152D	9A	TXS	
1496	8D 0D D0	STA	V+\$D	152E	4C 0D 08	JMP	START
1499	A9 80	LDA	#\$80	1531	9F. DATAGMVR	.BYT	\$9F
149B					A7 44 AD		
	8D FE 07	STA	SPOINTER+6	1532	47 41 4D	.ASC	"GAME OVER"
149E	AD 17 07	LDA	\$717	153B	A9 OE DEMOSET	LDA	#\$E
14A1	8D 90 13	STA	LIFE1	153D	8D 15 D0	STA	SPRITEON
14A4	AD 18 07	LDA	\$718	1540	A9 60	LDA	#\$60
14A7	8D 95 13	STA	LIFE2	1542	8D CB OD	STA	EXITLZRD
14AA	4C 4E 14	JMP	NEWSTART	1545	4C D5 12	JMP	DEMO
14AD	A9 30 SETLIVES	LDA	#\$30		40 00 12	OITII	DLINO
14AF	8D 90 13		πψου LEE4	1	limenda in dama		
		STA	LIFE1	,move	lizards in demo		,
14B2	A9 35	LDA	#\$35	i			
14B4	8D 95 13	STA	LIFE2	1548	20 95 OD LZRDDEMO	JSR	Lizard
14B7	4C C7 0E	JMP	MOVESPRD	154B	EE EC 03	INC	\$3EC
:				154E	D0 F8	BNE	LZRDDEMO
'nrint '	'change to (a square)"			1550	EE ED 03	INC	\$3ED
·	onungo to (u oquaro)			1553	AD ED 03	LDA	\$3ED
, 14BA	A9 OC CHANGETO	LDA	#\$C	1556	C9 09		#9
						CMP	
14BC	85 D3	STA	\$D3	1558	DO EE	BNE	LZRDDEMO
14BE	A9 16	LDA	#\$16	155A	A9 00	LDA	#0
14C0	85 D6	STA	\$D6	155C	8D ED 03	STA	\$3ED
14C2	20 10 E5	JSR	PCURSOR	155F	4C 37 13	JMP	DEMOPAUS
14C5	A2 00	LDX	#0	1562	A9 4C SETSPEED	LDA	#\$4C
14C7	BD D5 14 CTLOOP	LDA	DCHANGE,X	1564	8D CB OD	STA	EXITLZRD
14CA				1007	00 00 00	אוט	LATILLIND
		ICD					
	20 D2 FF	JSR	PRINT	;			
14CD	E8	INX		; ;set sp	peed of level		
14CD 14CE	E8 E0 17	INX CPX	#\$17	• '			
14CD 14CE 14D0	E8 E0 17 D0 F5	INX		1567	peed of level A9 10	LDA	#\$10
14CD 14CE 14D0	E8 E0 17 D0 F5	INX CPX BNE	#\$17 CTL00P	1567	A9 10		#\$10
14CD 14CE 14D0 14D2	E8 E0 17 D0 F5 4C EC 14	INX CPX BNE JMP	#\$17 CTLOOP PRCOLOR	1567 1569	A9 10 38	SEC	
14CD 14CE 14D0	E8 E0 17 D0 F5	INX CPX BNE	#\$17 CTL00P	1567 1569 156A	A9 10 38 ED E1 03	SEC SBC	#\$10 LEVEL
14CD 14CE 14D0 14D2 14D5	E8 E0 17 D0 F5 4C EC 14 05 43 48 DCHANGE	INX CPX BNE JMP .ASC	#\$17 CTLOOP PRCOLOR "{WHT}CHANGE TO	1567 1569 156A 156D	A9 10 38 ED E1 03 4A	SEC SBC LSR	LEVEL
14CD 14CE 14D0 14D2	E8 E0 17 D0 F5 4C EC 14	INX CPX BNE JMP	#\$17 CTLOOP PRCOLOR "{WHT}CHANGE TO \$20,\$12,\$E9,\$20,\$9	1567 1569 156A 156D 156E	A9 10 38 ED E1 03 4A 8D 7E 15	SEC SBC LSR STA	LEVEL LVLSPEED
14CD 14CE 14D0 14D2 14D5	E8 E0 17 D0 F5 4C EC 14 05 43 48 DCHANGE 20 12 E9	INX CPX BNE JMP .ASC	#\$17 CTLOOP PRCOLOR "{WHT}CHANGE TO "20,\$12,\$E9,\$20,\$9 2,\$E9,\$11	1567 1569 156A 156D 156E 1571	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15	SEC SBC LSR STA INC	LEVEL LVLSPEED LVLSPEED
14CD 14CE 14D0 14D2 14D5	E8 E0 17 D0 F5 4C EC 14 05 43 48 DCHANGE	INX CPX BNE JMP .ASC	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO "20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$98,\$	1567 1569 156A 156D 156E	A9 10 38 ED E1 03 4A 8D 7E 15	SEC SBC LSR STA	LEVEL LVLSPEED
14CD 14CE 14D0 14D2 14D5	E8 E0 17 D0 F5 4C EC 14 05 43 48 DCHANGE 20 12 E9	INX CPX BNE JMP .ASC	#\$17 CTLOOP PRCOLOR "{WHT}CHANGE TO "20,\$12,\$E9,\$20,\$9 2,\$E9,\$11	1567 1569 156A 156D 156E 1571 1574	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B	SEC SBC LSR STA INC	LEVEL LVLSPEED LVLSPEED
14CD 14CE 14D0 14D2 14D5	E8 E0 17 D0 F5 4C EC 14 05 43 48 DCHANGE 20 12 E9	INX CPX BNE JMP .ASC	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO "20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$98,\$	1567 1569 156A 156D 156E 1571 1574	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15	SEC SBC LSR STA INC	LEVEL LVLSPEED LVLSPEED
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ;	E8 E0 17 D0 F5 4C EC 14 05 43 48 DCHANGE 20 12 E9 9D 9D 9D	INX CPX BNE JMP .ASC .BYT	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO "20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$98,\$	1567 1569 156A 156D 156E 1571 1574	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B	SEC SBC LSR STA INC	LEVEL LVLSPEED LVLSPEED
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ;	E8 E0 17 D0 F5 4C EC 14 05 43 48 DCHANGE 20 12 E9	INX CPX BNE JMP .ASC .BYT	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO "20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$98,\$	1567 1569 156A 156D 156E 1571 1574 ;	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level	SEC SBC LSR STA INC JMP	LEVEL LVLSPEED LVLSPEED BIRD
14CD 14CE 14D0 14D2 14D5 14DF 14E6	E8 E0 17 D0 F5 4C EC 14 C5 43 48 DCHANGE 20 12 E9 9D 9D 9D goal color to change the sq	INX CPX BNE JMP .ASC .BYT .BYT	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$9D,\$9D,\$90,\$98,\$ B7,\$87	1567 1569 156A 156D 156E 1571 1574 ; ;pause	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS	SEC SBC LSR STA INC JMP	LEVEL LVLSPEED LVLSPEED BIRD
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ; ;print (;	E8 E0 17 D0 F5 4C EC 14 05 43 48 DCHANGE 20 12 E9 9D 9D 9D goal color to change the sq	INX CPX BNE JMP .ASC .BYT .BYT .BYT	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO "20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$98,\$	1567 1569 156A 156D 156E 1571 1574 ;pause ;1577 157A	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03	SEC SBC LSR STA INC JMP	LEVEL LVLSPEED LVLSPEED BIRD \$301 \$301
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ; ;print (;;	E8 E0 17 D0 F5 4C EC 14 C EC 14 C EC 14 E9 E9 E9 E9 E9 E1	INX CPX BNE JMP .ASC .BYT .BYT .BYT .Uares to LDA CLC	#\$17 CTLOOP PRCOLOR "{WHT}CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$98,\$ B7,\$B7	1567 1569 156A 156D 156E 1571 1574 ;pause ;1577 157A 157D	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED	SEC SBC LSR STA INC JMP	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$+1
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ; print (; 14EC 14EF 14F0	E8 E0 17 D0 F5 4C EC 14 C5 43 48 DCHANGE 20 12 E9 9D 9D 9D goal color to change the square AD E1 03 PRCOLOR 18 69 01	INX CPX BNE JMP .ASC .BYT .BYT .BYT .LDA CLC ADC	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ B7,\$B7	1567 1569 156A 156D 156E 1571 1574 ; ;pause ; 1577 157A 157D	A9 10 38 ED E1 03 4A 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00	SEC SBC LSR STA INC JMP INC LDA = CMP	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$3C1 *+1 #0
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ;;print (;;14EC 14EF 14F0 14F2	E8 E0 17 D0 F5 4C EC 14 DCHANGE 20 12 E9 9D	INX CPX BNE JMP ASC .BYT .BYT .BYT .LDA CLC ADC STA	#\$17 CTLOOP PRCOLOR "{WHT}CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ 87,\$87 LEVEL #1 \$DB86	1567 1569 156A 156D 156E 1571 1574 ; ;pause ; ;pause ; 1577 157A 157D 157D	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6	SEC SBC LSR STA INC JMP INC LDA = CMP BNE	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 *+1 #0 MAINPAUS
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ; print (; 14EC 14EF 14F0	E8 E0 17 D0 F5 4C EC 14 C5 43 48 DCHANGE 20 12 E9 9D 9D 9D goal color to change the square AD E1 03 PRCOLOR 18 69 01	INX CPX BNE JMP .ASC .BYT .BYT .BYT .LDA CLC ADC	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ B7,\$B7	1567 1569 156A 156D 156E 1571 1574 ; ;pause ; ;pause ; 1577 157A 157D 157D	A9 10 38 ED E1 03 4A 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00	SEC SBC LSR STA INC JMP INC LDA = CMP BNE	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$3C1 *+1 #0
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ;;print (;;14EC 14EF 14F0 14F2	E8 E0 17 D0 F5 L0	INX CPX BNE JMP .ASC .BYT .BYT LDA CLC ADC STA STA	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ B7,\$B7 LEVEL #1 \$DB86 \$DB87	1567 1569 156A 156D 156E 1571 1574 ;;pause ; 1577 157D 157D 157F 1581	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00	SEC SBC LSR STA INC JMP INC LDA = CMP BNE LDA	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 *+1 #0 MAINPAUS #0
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ;;print (;); 14EC 14EF 14F0 14F2 14F5	E8 E0 17 D0 F5 L0	INX CPX BNE JMP .ASC .BYT .BYT LDA CLC ADC ADC STA STA STA	#\$17 CTLOOP PRCOLOR "{WHT}CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ 87,\$87 LEVEL #1 \$DB86	1567 1569 156A 156D 156E 1571 1574 ;;pause ;; 1577 157A 157D 157F 1581 1583	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 8D C1 03	SEC SBC LSR STA INC JMP INC LDA = CMP BNE LDA STA	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$4C1 *+1 #0 MAINPAUS #0 \$3C1
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ; print (; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	E8 E0 17 D0 F5 L0	INX CPX BNE JMP .ASC .BYT .BYT LDA CLC ADC STA STA	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ B7,\$B7 LEVEL #1 \$DB86 \$DB87	1567 1569 156A 156D 156E 1571 1574 ; ;pause ; ;1577 157D 157D 157D 157F 1583 1583	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 8D C1 03 EE 34 03	SEC SBC LSR STA INC JMP INC LDA EMP BNE LDA STA INC	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$3C1 *+1 #0 MAINPAUS #0 \$3C1 \$33C1
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ; print (); i 14EC 14F0 14F2 14F3 14F8 14FB	E8 E0 17 D0 F5 L0	INX CPX BNE JMP .ASC .BYT .BYT LDA CLC ADC ADC STA STA STA	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ B7,\$B7 LEVEL #1 \$DB86 \$DB87	1567 1569 156A 156D 156E 1571 1574 ;;pause ;; 1577 157A 157D 157F 1581 1583	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 8D C1 03	SEC SBC LSR STA INC JMP INC LDA = CMP BNE LDA STA	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$4C1 *+1 #0 MAINPAUS #0 \$3C1
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ; print (); i 14EC 14F0 14F2 14F3 14F8 14FB	E8 E0 17 D0 F5 L0	INX CPX BNE JMP .ASC .BYT .BYT LDA CLC ADC ADC STA STA STA	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ B7,\$B7 LEVEL #1 \$DB86 \$DB87	1567 1569 1560 156E 1571 1574 ; pause ; pause 1577 157A 157D 157F 1581 1583 1586 1589	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 8D C1 03 EE 34 03 4C CA 0B	SEC SBC LSR STA INC JMP INC LDA EMP BNE LDA STA INC	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$3C1 *+1 #0 MAINPAUS #0 \$3C1 \$33C1
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ;;print (;; 14EC 14F0 14F2 14F8 14F8 14FB ;;print (E8 E0 17 D0 F5 42 E0 14 C EC 14 C EC 14 C EC 14 E0	INX CPX BNE JMP ASC BYT BYT BYT LDA CLC ADC STA STA RTS	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO "\$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$9D,\$9D,\$9D,\$98,\$ B7,\$B7 LEVEL #1 \$DB86 \$DB87 \$DB88	1567 1569 1560 156E 1571 1574 ; pause ; pause 1577 157A 157D 157F 1581 1583 1586 1589	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 8D C1 03 EE 34 03	SEC SBC LSR STA INC JMP INC LDA EMP BNE LDA STA INC	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$3C1 *+1 #0 MAINPAUS #0 \$3C1 \$33C1
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ; print (); 14EC 14F3 14F8 14F8 ; print ();	E8 E0 17 D0 F5 4C EC 14 U5 43 48 DCHANGE 20 12 E9 PD	INX CPX BNE JMP ASC BYT BYT LUARES to LDA CLC ADC STA STA RTS JSR	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ B7,\$B7 LEVEL #1 \$DB86 \$DB87 \$DB88	1567 1569 1568 1560 156E 1571 1574 :;pause :1577 157A 157D 157D 157F 1583 1586 1589 ;select	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 8D C1 03 EE 34 03 4C CA 0B random location for egg	SEC SBC LSR STA INC JMP INC LDA CMP BNE LDA STA INC JMP	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 *+1 #0 MAINPAUS #0 \$3C1 \$3C1 \$3C1 \$3C1 \$3C1 \$3C1 \$3C1 \$3C1
14CD 14CE 14D0 14D2 14D5 14DF 14E6 ;;print (;;print (;	E8 E0 17 D0 F5 L0	INX CPX BNE JMP ASC .BYT .BYT LDA CLC ADC STA STA RTS JSR LDA	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$9D,\$9D,\$9D,\$98,\$ B7,\$87 LEVEL #1 \$DB86 \$DB87 \$DB88	1567 1569 156A 156D 156E 1571 1574 :;pause :;pause 1577 157A 157D 157D 157F 1581 1583 1586 1589 ;select ;158C	A9 10 38 ED E1 03 4A 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 BD C1 03 EE 34 03 4C CA 0B random location for egg 20 97 17 EGGRND	SEC SBC LSTA INC JMP INC LDA CMP BNE LDA STA INC JMP	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$3C1 *+1 #0 MAINPAUS #0 \$3C1 \$334 RTNBIRD
14CD 14CE 14D0 14D2 14D5 14D5 14E6 :;print (); 14EC 14F2 14F3 14F8 :;print (); 14FC 14FC 14FC 14FC 14FC	E8 E0 17 D0 F5 42 E0 17 D0 F5 43 48 DCHANGE 20 12 E9 9D	INX CPX BNE JMP ASC BYT BYT Uares to LDA CLC ADC STA STA RTS JSR LDA STA STA RTS	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO "\$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$9D,\$9D,\$9D,\$98,\$ B7,\$B7 LEVEL #1 \$DB86 \$DB87 \$DB88 CLEARBOT #\$E \$D3	1567 1569 156A 156D 156E 1571 1574 ; pause 1577 157D 157D 157D 157F 1581 1583 1586 1589 ; select	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 8D C1 03 EE 34 03 4C CA 0B random location for egg 20 97 17 EGGRND C9 8D C1 03 EGGRND C9 80	SEC SBC LSR STA INC JMP INC LDA = CMP BNE LDA STA INC JMP	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$3C1 *+1 #0 MAINPAUS #0 MAINPAUS #0 \$3C1 \$334 RTINBIRD
14CD 14CE 14D2 14D2 14D5 14D5 14E6 14E6 14F7 14F8 14FB 1501 1501	E8 E0 17 D0 F5 L0	INX CPX BNE JMP ASC .BYT .BYT LDA CLC ADC STA STA RTS JSR LDA	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$9D,\$9D,\$9D,\$98,\$ B7,\$87 LEVEL #1 \$DB86 \$DB87 \$DB88	1567 1569 156A 156D 156E 1571 1574 ; pause 1577 157D 157D 157D 157F 1581 1583 1586 1589 ; select	A9 10 38 ED E1 03 4A 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 BD C1 03 EE 34 03 4C CA 0B random location for egg 20 97 17 EGGRND	SEC SBC LSR STA INC JMP INC LDA = CMP BNE LDA STA INC JMP	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$3C1 *+1 #0 MAINPAUS #0 \$3C1 \$334 RTNBIRD
14CD 14CE 14D2 14D2 14D5 14D5 14E6 14E6 14F7 14F8 14FB 1501 1501	E8 E0 17 D0 F5 L4C EC 14 L4 C EC 14 L4 C EC 14 L5 L4 E9 L5	INX CPX EMPE JMP ASC BYT BYT LDA CLC ADC ADC STA STA STA STA STA STA STA STA STA STA	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ B7,\$B7 LEVEL #1 \$DB86 \$DB87 \$DB88 CLEARBOT #\$1 \$D3 #\$16	1567 1569 1568 1568 1561 1571 1574 1570 1577 1575 1581 1580 1589 1586 1589	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 8D C1 03 EE 34 03 4C CA 0B random location for egg 20 97 17 EGGRND C9 80 E9 69	SEC SBC LSR STA INC JMP INC LDA = CMP BNE LDA STA INC JMP JSR SC SC SC SC SC SC SC SC SC SC SC SC SC	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$-+1 #0 MAINPAUS #0 \$3C1 \$3C1 \$3C1 \$3C1 #0 #0 #0 #0 #0 #0 #0 #0 #0 #0 #0 #0 #0
14CD 14CB 14CB 14CB 14CB 14CB 14CB 14CB 14CB	E8 E0 17 D0 F5 L0	INX. CPX. CPX. CPX. JMP ASC BYT BYT LDA CADC STA RTS JSR LDA STA LDA	#\$17 CTLOOP PROOLOR "{WHT} CHANGE TO "\$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$9D,\$9D,\$9D,\$98,\$ B7,\$87 LEVEL #1 \$DB86 \$DB87 \$DB88 CLEARBOT #\$E \$D3 #\$16 \$D6	1567 1569 1568 1568 1561 1571 1571 1571 1570 1570 1570 1581 1583 1586 1586 1587 1586 1587 1587	A9 10 38 ED E1 03 4A 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 BD C1 03 EE 34 03 4C CA 0B random location for egg 20 97 17 EGGRND C9 80 B0 C9 90 ED C9 80 B0 F9 ED C9 80 ED	SEC SBC SBR STA INC JMP INC LDA STA INC JMP SPE LDA STA INC JMP STA INC JMP STA INC JMP STA INC JMP STA INC JMP STA INC INC INC INC INC INC INC INC INC INC	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$3C1 *+1 #0 MAINPAUS #0 MAINPAUS #0 \$3C1 \$334 RTINBIRD
14CD 14CE 14D2 14D5 14D5 14D6 14E6 14E6 14F0 14F0 14F1 14F1 1501 1501 1503 1505	E8 E0 17 D0 F5 43 48 DCHANGE 20 12 E9 9D 9D 9D goal color to change the square over" 20 4A 13 GAMEOVER A9 06 85 D3 A9 16 85 D6 20 10 E5	INX CPX CPX CPX CPX CPX CPX CPX CPX CPX CP	#\$17 CTLOOP PRCOLOR "{WHT} CHANGE TO "\$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ B7,\$B7 LEVEL #1 \$DB86 \$DB86 \$DB87 \$DB88 CLEARBOT #\$E \$D3 #\$16 \$D6 PCURSOR	1567 1569 1568 1560 1571 1574 1577 1570 1577 1575 1587 1588 1588 1588 1588 1588	A9 10 38 ED E1 03 4A 8D 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 8D C1 03 EE 34 03 4C CA 0B random location for egg 20 97 17 EGGRND B0 F9 29 F8 18	SEC SBC SBR STA INC JMP INC LDA EMP BNE LDA SINC JMP JSR CMP BCS AND CLC	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$3C1 *+1 #0 MAINPAUS #0 S3C1 \$334 RTINBIRD GETRIND #\$80 EGGRIND #\$F8
14CD 14CE 14D2 14D5 14D5 14D5 14E6 14F6 14F7 14F8 14FB 1501 1503 1503 1505 150A	E8 E0 17 D0 F5 L4C EC 14 L4 C EC 14 L4 C EC 14 L5 L4 E9 L5	INX CPX CPX CPX INF LOA	#\$17 CTLOOP PROOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ B7,\$B7 LEVEL #1 \$DB86 \$DB87 \$DB88 CLEARBOT #\$1 \$D3 #\$16 \$D6 PCURSOR #0	1567 1569 1568 1569 1560 1571 1571 1571 1570 1570 1575 1581 1583 1588 1589 1589 1591 1593 1593	A9 10 38 ED E1 03 4A BD 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 8D C1 03 EE 34 03 4C CA 0B random location for egg 20 97 17 EGGRND C9 00 ED C9	SEC SBC SRC SRC SRC SRC SRC SRC SRC SRC SRC SR	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$-+1 #0 MAINPAUS #0 \$3C1 \$3C1 #1 #0 GETRIND #\$80 EGGRIND #\$F8
14CD 14CD 14D2 14D5 14D5 14D5 14D6 14E6 14F0 14F2 14F5 14F7 1501 1503 1507 1507	E8 E0 17 D0 F5 L0	INX. CPX. CPX. CPX. JMP ASC BYT BYT LDA CADC STA STA RTS JSR LDA STA JSR LDA LDA LDA LDA	#\$17 CTLOOP PROOLOR "{WHT} CHANGE TO "\$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$9D,\$9D,\$9D,\$98,\$ B7,\$87 LEVEL #1 \$DB86 \$DB87 \$DB88 CLEARBOT #\$E \$D3 #\$16 \$CCLEARBOT #\$16 \$D6 PCURSOR #0 DATAGMVR,X	1567 1569 1568 1561 1561 1571 1574 1577 1570 1577 1578 1580 1588 1588 1588 1581 1583 1586 1587 1593 1593 1595 1595	A9 10 38 ED E1 03 4A 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 BD C1 03 EE 34 03 4C CA 0B random location for egg 20 97 17 EGGRND C9 B0 B0 F9 29 F8 18 69 06 80 00 50	SEC SBC SBC SRC SBC SBC SBC SBC SBC SBC SBC SBC SBC SB	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$3C1 *+1 #0 MAINPAUS #0 \$3C1 \$334 RTNBIRD GETRIND #\$80 EGGRIND #\$F8
14CD 14CE 14D2 14D5 14D5 14D5 14E6 14F6 14F7 14F8 14FB 1501 1503 1503 1505 150A	E8 E0 17 D0 F5 L4C EC 14 L4 C EC 14 L4 C EC 14 L5 L4 E9 L5	INX CPX CPX CPX INF LOA	#\$17 CTLOOP PROOLOR "{WHT} CHANGE TO \$20,\$12,\$E9,\$20,\$9 2,\$E9,\$11 \$90,\$90,\$90,\$98,\$ B7,\$B7 LEVEL #1 \$DB86 \$DB87 \$DB88 CLEARBOT #\$1 \$D3 #\$16 \$D6 PCURSOR #0	1567 1569 1568 1569 1560 1571 1571 1571 1570 1570 1575 1581 1583 1588 1589 1589 1591 1593 1593	A9 10 38 ED E1 03 4A BD 7E 15 EE 7E 15 4C C7 0B to control speed of level EE C1 03 MAINPAUS AD C1 03 LVLSPEED C9 00 D0 F6 A9 00 8D C1 03 EE 34 03 4C CA 0B random location for egg 20 97 17 EGGRND C9 00 ED C9	SEC SBC SRC SRC SRC SRC SRC SRC SRC SRC SRC SR	LEVEL LVLSPEED LVLSPEED BIRD \$3C1 \$3C1 \$-+1 #0 MAINPAUS #0 \$3C1 \$3C1 #1 #0 GETRIND #\$80 EGGRIND #\$F8

159E	29 F8	AND	#\$F8				
15A0	18	CLC		;coun	ter until egg pause ends		
15A1	69 01	ADC	#1	;			
15A3	8D 0C 50	STA	\$500C	1637	EE C6 03 EGGPCNTR	INC	\$306
15A6 15A9	20 D8 0C A0 00	JSR	SLSU	163A	AD C6 03 D0 30 EE C7 03 AD C7 03 C9 16 D0 26	LDA	\$306
15A9 15AB		LDY LDA	#0 /#ED\\V	163D	D0 30	BNE	EXITEC
15AD		CMP	(\$FD),Y #\$E9	163F 1642	AD 07 03	INC	\$3C7 \$3C7
15AF	DO DB	BNE	EGGRND	1645	AD 07 03 CO 16	CMD	\$3U/ #\$16
15B1	AD 0C 50	BNE LDA STA LDA	\$500C	1647	DO 26	RNE	EXITEC
15B4	8D 0E D0	STA	V+\$E	1649	D0 26 A9 00 8D C7 03 EE C8 03 AD C8 03 C9 0B 90 08	LDA	#0
15B7	AD 0D 50	LDA	\$500D	164B	8D C7 03	STA	\$3C7
15BA	8D OF DO	STA	V+\$F	164E	EE C8 03	INC	\$308
15BD	A9 4C	LDA	#\$4C	1651	AD C8 03	LDA	\$3C8
15BF 15C2	8D F0 0C 4C CD 15	STA	JTR4	1654	C9 0B	CMP	#\$B
1502	A9 60 CSLSUTR	JIVIP	PUTINDO #\$60	1656	90 08	BCC	NOFLASH
15C7	OD EO OC	STA	JTR4	flach	bird color		
15CA	4C 0A 16 A9 D0 PUTINDO 8D E3 0C 8D DA 0C 4C C7 0B	JMP	PUTIN50	,iidaii	UIIU COIDI		
15CD	A9 DO PUTINDO	LDA	#\$D0	1658	AD 2D D0	ΙDΔ	SCOLOR+6
15CF	8D E3 OC	STA	#\$D0 LV2	165B 165D	AD 2D D0 49 08 8D 2D D0	EOR	#8
15D2	8D DA OC	STA	11/4	165D	8D 2D D0	STA	SCOLOR+6
15D5	4C C7 0B	JMP	BIRD	1660	AD C8 03 NOFLASH	LDA	\$3C8
15D8				1663	C9 10	CMP	#\$10
i obook	if one names is an			1665	8D 2D D0 AD C8 03 NOFLASH C9 10 D0 08	BNE	EXITEC
CHECK	if egg pause is on			1667 1669	A9 00	LDA STA	#0
, 15D8	AD C5 03 CHKEGGP	IΠΔ	FCCPALIS	1660	8D C8 03	SIA	\$3C8 EGGPAUS
15DB	AD C5 03 CHKEGGP F0 03 4C 37 16	BEQ	EGGPAUSE	166C 166F 1672	8D C5 03 4C D5 16 EXITEC EE 2E DO COLISION	JMP	ACOUNTER
15DD	4C 37 16	JMP	EGGPCNTR	1672	FE 2E DO COLISION	INC	SCOLOR+7
;							000001117
counte	er until egg is to be put or	or take	n off screen	;see it	bird has run into any pre	dators	
;	FF 04 00 F00D4U0F	1110	0004	;			
15E0 15E3	ee ca 03 eggpause ad ca 03	INC	\$3CA	16/5	A2 0A	LDX	#\$A
15E6	AD GA GO CO 70	CMD	\$3CA #\$70	16//	BD 00 D0 CLSNLOOP		V,X
15E8	EE CA 03 EGGPAUSE AD CA 03 C9 70 D0 17 A9 00 8D CA 03 EE CB 03 AD CB 03	RNF	EXITEGGP	; 1675 1677 167A 167B 167E 1687 1684 1686 1689	18 7D 9F 16	CLC ADC	DICTANCE
15EA	A9 00	IDA	#0	167E	38	SEC	DISTANCE,X
15EC	8D CA 03	STA	\$3CA	167F	ED OC DO	SBC	V+\$C
15EF	EE CB 03	INC	\$3CB	1682	C9 05	SBC CMP BCS LDA	#5
15F2	AD CB 03	LDA	\$3CB	1684	B0 12	BCS	NEXTCCHK
15F5	DO OA	BNE	EXITEGGP	1686	BD 01 D0	LDA	V+1,X
;	agg is to be not an ar aff					CLC	
,566 11	egg is to be put on or off	screen		168A	7D A0 16	ADC	DISTANCE+1,X
, 15F7	AD OF DO	LDA	V+\$F	100U 169E	38 ED 0D D0	SEC	VIED
15FA	FO 08	BEQ	V+\$F Puteggon	1601	C9 05	CMP	V+\$D #5
15FC	A9 UU	I I DA	#0	1693	B0 03	BCS	NEXTCCHK
15FE	8D 0F D0 4C 72 16 EXITEGGP 20 C5 15 PUTEGGON	STA	V+\$F	1695	4C 68 17	JMP	CHKSUPER
1601	4C 72 16 EXITEGGP	JMP	COLISION	1698	CA NEXTCCHK	DEX	
1604	20 C5 15 PUTEGGON	JSR	CSLSUTR	1699	CA	DEX	
1607	4C 01 16 A9 50 PUTIN50 8D E3 0C 8D DA 0C	JMP	EXITEGGP #\$50	168A 168D 168E 1691 1693 1695 1698 1699 169A 169C	10 DB	BPL	CLSNLOOP
160A 160C	A9 50 PUTIN50 8D E3 OC	LUA		169C	4C 95 0D	JMP	LIZARD
160F	8D DA OC	STA	LV2 LV1	169F	04 0B FF DISTANCE	.BYT	4,11,255,10,255,10,
1612	4C 8C 15	STA JMP	EGGRND	16AB	A9 60 DEATHSET	LDA	255,10,5,5,3,4 #\$60
:		OIVII	Ladinib	16AD	8D 6E 13	STA	#300 STR1
; see if	bird has landed on egg			16B0	A9 00	LDA	#0
;	••			16B2	8D OF DA	STA	SID+\$F
1615	AD OC DO CHECKEGG	LDA	V+\$C	16B5	20 55 13	JSR	BCPAUSE
1618	CD 0E D0	CMP	V+\$E	16B8	A9 8D	LDA	#\$8D
161B 161D	CD 0E D0 D0 17 AD 0D D0 CD 0F D0 D0 0F	RNF	NOTONEGG	16BA 16BD	8D 6E 13	STA	STR1
1620	CD OF DO	CMD	V+\$D V+\$F	iord	4C 46 14	JMP	DEATH
1623	DO OF	BNE	NOTÓNEGG	incres	se # of lives		
1625	A2 U2	LDX	#2	; iiiolea			
1627	20 EC 16	JSR	INCSCR	1600	EE 95 13 INCLIVES	INC	LIFE2
162A	A9 /F	LDA	#\$7F	16C3 16C6	AU 90 IO	LDA	LIFE2
162C	8D C5 03	STA	EGGPAUS	1606	C9 3A	CMP	#\$3A
162F	A9 00	LDA	#0	16C8	D0 08	BNE	LT10
1631 1634	8D OF DO 4C D8 OC NOTONEGG	STA	V+\$F	16CA	A9 30	LDA	#\$30
1004	TO DO UU NUIUNEGG	JMP	SLSU	16CC	8D 95 13	STA	LIFE2

16CF	EE 90 13	INC	LIFE1	1748	A2 04	ISHIGH	LDX	#4
16D2	4C 7A 0B LT10	JMP	SPRSET2	174A	BD 03 07		LDA	\$703,X
16D5	EE C1 03 ACOUNTER	INC	\$3C1	174D	9D B4 06		STA	\$6B4,X
16D8	AD C1 03	LDA	\$3C1	1750	9D E3 08		STA	HISCRMEM,X
16DB	C9 04	CMP	#4	1753	CA		DEX	## 00D
16DD	D0 08	BNE	NOBIRD	1754	10 F4	NOTHELL	BPL	IHLOOP
16DF	A9 00	LDA	#0	1756	60	NOTHIGH	RTS	
16E1	8D C1 03	STA	\$3C1		aniliaina is	bind in binds in a		
16E4	4C C7 OB	JMP	BIRD	gnore	COILISION IT	bird is high in s	super jun	тр
16E7	4C D8 15 NOBIRD	JMP	CHKEGGP	1757	AD 36 03	CDDON	LDA	\$336
i andel te	00000			175A	C9 06	OFNON	CMP	#6
;a00 to	score			175C	90 07		BCC	STILLDIE
, 16EA	A2 03 ADDSCORE	LDX	#3	175E	C9 15		CMP	#\$15
16EC	FE 03 07 INCSCR	INC	\$703.X	1760	BO 03		BCS	STILLDIE
16EF	BD 03 07	LDA	\$703,X	1762	4C 98 16	i	JMP	NEXTCCHK
16F2	C9 3A	CMP	#\$3A	1765	4C AB 16	STILLDIE	JMP	DEATHSET
16F4	D0 08	BNE	EXITSCR	1768	AD FE 03	CHKSUPER	LDA	SPRJMP
16F6	A9 30	LDA	#\$30	176B	DO EA		BNE	SPRON
16F8	9D 03 07	STA	\$703,X	176D	4C AB 16	;	JMP	DEATHSET
16FB	CA	DEX		;				
16FC	10 EE	BPL	INCSCR	;fill sec	tion of mei	mory with rando	om numb	ers
16FE	4C 16 17 EXITSCR	JMP	SCRTOMEM	;		D1:D1:4514		##00
;				1770	A9 30	RNDMEM	LDA	#\$30
;deterr	nine value to add to score			1772	8D 7C 17		STA	CRRNTMEM+2 #0
;	00.00 111000000	ODV/	"0	1775	A2 00	RNDLOOP1	LDX LDA	#U RANDOM
1701	CO OO INCSCORE	CPY BNE	#0	1777 177A		RNDLOOP2 CRRNTMEM	STA	\$3000.X
1703 1705	D0 0E 84 FC	STY	EXITIS \$FC	177D	E8	CHRIVITVICIVI	INX	φυσου, λ
1703	A4 04	LDY	\$4	177E	DO F7		BNE	RNDLOOP2
1707	20 EA 16 NOOFINC	JSR	ADDSCORE	1780	EE 7C 17	,	INC	CRRNTMEM+2
170C	88	DEY	ADDOGGILE	1783	AD 7C 17	,	LDA	CRRNTMEM+2
170D	CO 01	CPY	#1	1786	C9 50		CMP	#\$50
170F	D0 F8	BNE	NOOFING	1788	DO EB		BNE	RNDLOOP1
1711	A4 FC	LDY	\$FC	178A	A9 30		LDA	#\$30
1713	A5 04 EXITIS	LDA	\$4	178C	8D BO 17	•	STA	RNDLOC+2
1715	60	RTS	•	178F	A9 00		LDA	#0
:				1791	8D AF 17		STA	RNDLOC+1
;put s	core into memory			1794	4C B2 17	•	JMP	SOUNDSU2
;			4	; .				
1716	A2 04 SCRTOMEM	LDX	#4	retum	accumulato	or with a randor	n numbe	er –
1718	BD 03 07 SML00P	LDA	\$703,X	; 1797	AD AE 17	GETRND	LDA	RNDLOC+1
171B	9D F3 08	STA	SCRMEM,X	1797 179A	18	GEIRND	CLC	NINDLUCT I
171E 171F	CA 10 F7	DEX BPL	SMLOOP	179B	69 01		ADC	#1
1721	4C 34 17	JMP	HISCORE	179D	8D AF 17	,	STA	RNDLOC+1
.1721	10 07 17	CIVII	THOUGHT	17A0	AD BO 17		LDA	RNDLOC+2
, hlank	out score			17A3	69 00		ADC	#0
:	001 00010			17A5	C9 4F		CMP	#\$4F
1724	A2 04 BLANKSCR	LDX	#4	17A7	D0 02		BNE	NOWRAP
1726	A9 30	LDA	#\$30	17A9	A9 30		LDA	#\$30
1728	9D 03 07 BSL00P	STA	\$703,X	17AB		NOWRAP	STA	RNDLOC+2
172B	CA	DEX		17AE		RNDLOC	LDA	\$3000
172C	10 FA	BPL	BSLOOP	17B1	60		RTS	
172E	20 73 12	JSR	SETCHK					
1731	4C 74 13	JMP	INCLEVEL	;souna	set-up			
; chool	if high score is beaten			, 17B2	A9 E1	SOUNDSU2	LDA	#\$E1
,CHEC	i iligii score is beateri			17B4	8D 14 D		STA	SID+\$14
1734	A2 00 HISCORE	LDX	#0	17B7	A9 21	•	LDA	#\$21
1736	38 HSCHECK	SEC	""	17B9	8D 12 D	4	STA	SID+\$12
1737	BD B4 06	LDA	\$6B4,X	17BC	A9 0F		LDA	#\$F
173A	FD 03 07	SBC	\$703,X	17BE	8D 18 D	4	STA	SID+\$18
173D	30 09	BMI	ISHIGH	17C1	A9 00		LDA	#0
173F	E9 01	SBC	#1	17C3	8D 05 D		STA	SID+5
1741	10 13	BPL	NOTHIGH	1706	8D FE 2	F -	STA	\$2FFE
1743	E8	INX	""	1709	8D FF 2		STA	\$2FFF
1744	E0 05	CPX	#5	17CC	4C F9 18	5	JMP	SETRSTR
1746	DO EE	BNE	HSCHECK	, conne	for bird ju	mn		
store	new high score			,auuriu	ioi biiu ju			
,5.0.0				17CF	AE 36 0	3 BJSOUND	LDX	\$336

17D2	BD DB 17 8D 0F D4 4C E0 0B 00 80 7C DATABJS 70 6E 6C 00 00 00 00 set-up 8D 08 SOUNDSU4 8D 09 D4 8D 00	LDA	DATABJS,X	1889	BD BA 18		LDA	DTUNE.X
17D5	8D 0F D4	STA	SID+\$F	188C	18		CLC	-
17D8	4C EO OB	JMP	EXITBIRD	188D	69 04		ADC	#4
17DB 17E0	00 80 /C DAIABJS	.BYT	0,\$80,\$7C,\$78,\$74	188F	8D 08 D4		STA	SID+\$8
1760	70 DE DU	.DTI	\$/U,\$0E,\$0U,\$0A,\$0 8.\$66	1804	8D 04 D4		CTA	#\$81
17E6	00 00 00	BYT	0,000	1897	A9 80		IDA	#\$80 #\$80
17EE	00 00 00	.BYT	0.0.0.0.0.0.0	1899	8D 04 D4		STA	SID+4
;				189C	4C B7 18		JMP	EXITTUNE
;sound	set-up			189F	C9 1E T	UNE4	CMP	#\$1E
; 17F5	AO OO COLINDOLIA	LDA	що	18A1	DO 14		BNE	EXITTUNE
17F7	AD NO DA	STA	#0 SID+0	1886	40 M		I DA	みとドドド #0
17FA	8D 0A D4	STA	SID+\$A	18A8	8D FE 2F		STA	\$2FFF
17FD	A9 77	LDA	#\$77	18AB	AD FF 2F		LDA	\$2FFF
17FF	8D 06 D4	STA	SID+6	18AE	C9 08		CMP	#8
1802	8D 0D D4	STA	SID+\$D	18B0	D0 05		BNE	EXITTUNE
1805 1807	A9 41	LUA	#\$41 CID_L CD	1882	A9 00		LDA	#0
180A	A9 AC	IDA	31D ∓ ФВ #\$4C	10D4 18R7	4C D3 18 F	YITTI INE	IMP	Φ∠FFF EXITIRΩ
180C	8D DD 13	STA	JTR3	18BA	04 08 0C D	TUNE	BYT	4,8,12,16,20,16,12,8
180F	A9 00	LDA	#0	;				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1811	8D 0F D4	STA	SID+\$F	;set ne	w irq interrupt	vector		
1814	4C C2 18	JMP	SETIRQ	;	70 0	ETIDO	051	
tune n	layed in interrupt			1802	/8 S	EIIKU	SEI	# ~INTDDDT
;tune pi	ayeu iii iiiteitupt			1805	8D 14 03		STA	# <intraft< td=""></intraft<>
1817	AD FE 2F TUNE	LDA	\$2FFE	18C8	A9 18		LDA	#>INTRRPT
181A	C9 01	CMP	#1	18CA	8D 15 03		STA	IRQ+1
181C	D0 1B	BNE	TUNE1	18CD	58		CLI	
181E 1821	AE FF 2F	LDX	\$2FFF	18CE	A9 00		LDA	#0
1824	SD DA 10	CTA	DIONE,X	1803	4U 33 UU	VITIDO	JIVIP	CIRI
1827	A9 28	LDA	#\$28	18D6	4C 31 FA	Arring	JMP	IROFNTRY
1827 1829 182C	8D 01 D4	STA	SID+1	18D9	EE FD 2F IN	ITRRPT	INC	\$2FFD
182C	A9 81	LDA	#\$81	18DC	AD FD 2F		LDA	\$2FFD
182E	8D 04 D4	STA	SID+4	18DF	29 01		AND	#1
1831 1833	A9 80	LDA	#\$80 CID 1 4	18E1	D0 03		BNE	JMPTUNE
1836	AC R7 18	IMD	SID+4 EVITTI INE	1856	40 31 EA	MOTUNE	JMP	TUNE
1839	C9 OF TUNE1	CMP	#\$F	·	40 17 10 31	MILICIAE	DIAIL	TONE
183B	DO 28	BNE	TUNE2	;check	shift key to pa	ause all game	action	
183D	A9 40	LDA	#\$40	;		3		
183F	8D 0B D4	STA	SID+\$B	18E9	AD 8D 02 P	AUSGAME	LDA	SHIFT
1842 1844	A9 41	LUA	#\$41	18EC	DO 03		BNE	PAUSEON
1847	ΔQ 1F	IDA	310+40 #\$1F	10EE	40 // 13 40 nn P	ALISEON	JIVIP	#0
1849	8D 01 D4	STA	SID+1	18F3	8D 0F D4	HOOLON	STA	SID+\$F
184C	EE FF 2F	INC	\$2FFF	18F6	4C E9 18		JMP	PAUSGAME
184F	AE FF 2F	LDX	\$2FFF	;				
1852	BD BA 18	LDA	DTUNE,X	set ne	w vector for n	on-maskable i	interrupt	(restore key)
1855 1858 185A 185D 185F	8D US D4 AG 81	SIA	510±8 #\$81	1950	40 2D C	стретр	LDA	# ~\/DECTODE
185A	AD DA DA	STA	#\$01 SID+4	18FR	8D 18 D3	EINOIN	STA	# <vnesture< td=""></vnesture<>
185D	A9 80	LDA	#\$80	18FE	A9 15		LDA	#>VRESTORE
185F	8D 04 D4	STA	SID+4	1900	8D 19 03		STA	RESTORE + 1
1862	4C B7 18	JMP	EXITTUNE	1903	A9 00		LDA	#0
1862 1865 1867	C9 10 TUNE2	CMP	#\$10	1905	8D 10 D0		STA	V+\$10
1869	AF FF 2F	PINE	\$2FFF	1908 1008	80 18 00 40 F5 17		IMD	A + 夕!R
186C	BD BA 18	LDA	DTUNE.X	1300	40 13 17		OIVII	300ND304
186F	18	CLC	o roman.					
1870	69 02	ADC	#2					
1872	8D 08 D4	STA	SID+8					
1875 1878	40 B/ 18		EXITIONE #010					
187A	DO 23	RNF	#PIO TIINF4					
187C	A9 40	LDA	#\$40					
187E	8D 0B D4	STA	SID+\$B					
1881	A9 41	LDA	#\$41					
1883	AC CC OC	STA	SID+\$B					
1886	AC FF 2F	LUX	ラ とアドト					

Bump-N-Run

Source code by Tim J. Midkiff

C000 C000 M C000 VSP C000 ABSVSP C000 C0UNTER C000 MSGBT C000 SPXYNO C000 COL C000 COL C000 COLREG C000 SPCTRIL C000 BALLMSK C000 BALLVX C000 BALLVX C000 BALLVX C000 C000 C000 C000 C000 C000 C000 C0	*= \$C00 = \$C70 = M + M+ = M+ = M+ = M+ = M+ = M+ = M+	0 C062 0 C065 6 C067 6 C068 12 C06D 18 C070 19 C073 20 C076 21 C079 22 C078 23 C070 24 C080 25 C085 27 C088	8D 18 C7 A9 00 8D 15 C7 8D 16 C7 8D 17 C7 8D 19 C7 8D 19 C7 8D 1A C7 A2 05 A9 00 INTVELS 9D 00 C7 A9 5A 9D 0C C7 CA	STA BALLMSK LDA #0 STA COL STA COLREG STA SPCTRL STA SCORE STA BALLVY LDX #5 LDA #0 STA VSP,X STA ABSVSP,X LDA #\$5A STA COUNTER,X DEX BPL INTVELS
reset game		mair	1 loop	
C000 A9 00 RSTGAME C002 8D 20 D0 C005 8D 21 D7 C008 8D 20 D7 C008 8D 20 D7 C008 8D 21 C7 C008 8D 21 C7 C006 AD 16 03 C011 8D 18 03 C014 AD 17 03 C017 8D 19 03 C01A A9 14 C01C 8D 18 D0 C01F A9 80 C021 8D 91 02 C024 A9 93 C026 20 D2 FF C029 A9 00 C028 A2 80 C020 9D 80 3F LP0 C030 CA C031 10 FA C033 A9 18 C035 8D 99 3F C038 A9 3C C039 A9 3C C030 BD 9C 3F C030 BD 9C 3F C040 8D 9F 3F C040 8D 9F 3F C040 BD 9F C040 BD	LDA #0 STA \$D02 STA \$D02 STA \$C72 STA \$C72 STA \$C31 STA \$C31 STA \$C31 LDA #514 STA \$C52 STA \$C52 STA \$C52 STA \$C53 STA \$	CO8B CO8B CO8B CO9C CO9C CO9C CO9C CO9C CO8B CO9C CO9C CO8B CO9C CO8B	AD 16 C7 MNLP 29 03 C9 03 D0 50 AD 15 C7 D0 48 AE 00 C7 AD 02 C7 AD 03 C7 AD 03 C7 AD 03 C7 AD 03 C7 AD 17 C7 F0 18 C0 03 C7 AD 17 C7 F0 18 C9 01 F0 0D A9 01 F0 0D A9 01 SD 15 D0 A9 01 SD 15 D0 A9 03 SP1CTRL BD 16 C7 STCNT BD 06 C7 STCNT BD 06 C7 CA 10 F7 C7 A9 13 A9 03 A9 01 A9 01 A9 03 A9 01 A9 01 A9 01 A9 03 A9 01 A9 01 A9 03 A9 01 AD 17 AD 01 AD 01 AD 04 AD 07 AD 01	LDA COLREG AND #3 CMP #3 BNE NOCOL LDA COL BNE PATCH LDX VSP LDY \$C701 LDA \$C702 STA VSP LDA \$C702 STA VSP LDA \$C702 STY \$C703 STX \$C702 STY \$C703 LDA SPCTRL BEQ ENDCTRL CMP #1 BEQ SP1CTRL LDA #1 STA SPCTRL LDA #3 STA \$D015 JMP ENDCTRL LDA #3 STA \$D015 JMP ENDCTRL LDA #3 STA \$D015 JMP ENDCTRL LDA #3 STA SPCTRL LDA #3 STA SCONTERL LDA #3 LDA ABSVSP,X STA COUNTER,X DEX BPL STCNT LDA #1 STA COL JMP MOVEMENT LDA \$C704 CMP BALLVX BNE NOMSK LDA SC705 CMP BALLVY BNE NOMSK
; C05D 20 80 C2 RSTGOAL C060 A9 FF	JSR INTSI LDA #\$FF	C0F1 C0F4 C0F7	AD 05 C7 CD 1A C7 D0 03	LDA \$C705 CMP BALLVY BNE NOMSK

COF9	AC 01 C1 A9 FF NOMSK 8D 18 C7 A9 00 CTRL 8D 15 C7 AD 16 C7 2D 18 C7 2D 18 C7 29 07 C9 05 D0 0A A9 01 8D 17 C7 A9 0B 8D 15 D0 C9 06 CAPSP2 D0 0A A9 03	JMP	CTRL	C1B5	OΑ	ASI	Δ
COFC	A9 FF NOMSK	I DA	#\$FF	C186	ΔΔ	TAY	^
COFE	8D 18 C7	CTA	DALI MCK	C107	DD 90. CE	104	NOC V
C101	40 00 OTDI	SIA	DALLIVION	OID/	DD 00 00	LDA	NUS,X
	A9 00 CIRL	LUA	#U	CIBA	20 D2 FF	JSK	\$FFD2
C103	8D 15 C/	SIA	CUL	CIBD	F8	INX	
C106	AD 16 C7	LDA	COLREG	C1BE	BD 80 C6	LDA	NOS,X
C109	2D 18 C7	and	Ballmsk	C1C1	20 D2 FF	JSR	\$FFD2
C10C	29 07	AND	#7	C1C4	A2 64	LDX	#\$64
C10E	C9 05	CMP	#5	C106	AO FE YIP	IN	#\$FF
C110	DO OA	RNE	CAPSDS	C1C8	RR VID	DEV	πψιι
C112	AQ 01	LDA	41 41	0100	00 ED 1E1	DNE	VID
0112	0D 47 07	CTA	TT I	0109	טט רט	DIVE	TLP
C114 C117 C119 C11C	6D 17 G7	SIA	SPUINL	CIUB	UA .	DEX	
U117	A9 UB	LUA	#\$UB	CTCC	D0 F8	BNE	XLP
C119	8D 15 D0	STA	\$D015	C1CE	AE 1F C7	LDX	SCORE
C11C	C9 06 CAPSP2	CMP	#6	C1D1	BD 1F C7	LDA	SCORE,X
	D0 0A	BNE	MOVEMENT	C1D4	C9 0F	CMP	#\$0F
C120	A9 03	LDA	#3	C1D6	DO 27	RNF	NOEND
C122	8D 17 C7	STA	SPCTRI	CIDS	A2 0C	INY	#\$00
C125	AQ 13	LDA	#¢13	CIDA	AO 10	LDV	#610
C127	9D 15 DO	CTA	##10 \$D01E	CIDA	10	CLC	## # 10
0121	00 10 00 MOVEMENT	OIM	4D019	CIDC	10	ULU	A ===0
C12A	AZ UU WUVEIVIENI	LUX	#U	CIUD	20 FU FF	JSK	\$FFFU
C12C C12F	8E 14 C/	SIX	SPXYNU	CIEU	A2 2C	LUX	#\$2C
C12F	A9 09	LDA	#9	C1E2	20 E3 C5	JSR	TITLE
C131	8D 12 C7	STA	MSGBT	C1E5	A2 0E	LDX	#\$0E
C134	AD 01 DC	LDA	\$DC01	C1E7	AO OB	LDY	#\$0B
C137 C13A C13D	8D 13 C7	STA	inv	C1FQ	18	CLC	405
C13A	20 DE C2	ICD	CKVEI	CIEA	20 E0 EE	ICD	GEEEU
C12D	A2 02	100	40 40	C1ED	20 TO TT	IDV	ΦΓΓΓΟ 40044
C13F	0F 14 C7	CTV	#Z	CIED	AZ 41	LDX	# \$41
CIST	0E 14 U/	SIX	SPATINU	CIEF	20 E3 C5	JSH	IIILE
U142	A9 12	LDA	#\$12	C1F2	AD 01 DC ENDLP	LDA	\$DC01
C144	8D 12 C7	STA	MSGBT	C1F5	0D 00 DC	ORA	\$DC00
C147	AD 00 DC	LDA	\$DC00	C1F8	29 10	and	#\$10
C14A	8D 13 C7	STA	JOY	C1FA	D0 F6	BNE	ENDLP
C14D	20 DF C2	JSR	CKVEL	C1FC	4C 00 C0	JMP	RSTGAME
C142 C144 C147 C14A C14D C150 C152	A2 04	IDX	#4	C1FF	AC 5D CO NOEND	IMP	RSTCOAL
C152	8E 14 C7	STY	CDYVNIO	COUS	AC 8B CO DEDEAT	IMD	MANI D
C155	AD 24	LDA	TEAUN	0202	40 00 00 REFERI	JIVIF	MIMILE
0100	A9 24 AD 40 A7	LUA	##24 ***********************************				
C157	8D 12 C7	SIA	MSGB1	; nandi	le irq sprite collisions		
C15A	AD 04 C/	LUA	\$C/04	<u>:</u>			
C15D	8D 19 C7	STA	BALLVX	C205	AD 1E DO IRQ	LDA	\$D01E
C160	AD 05 C7	LDA	\$C705	C208	8D 16 C7	STA	COLREG
C163	8D 1A C7	STA	BALLVY	C20B	29 03	AND	#3
C166	BD OC C7	LDA	COUNTER.X	C20D	C9 03	CMP	#3
C169	DD 06 C7	CMP	ARSVSPX	C20F	DO OF	RNF	RETIRO
C16C	EU U8	BEO	RVEIV	C211	V3 UU	LDV	#0
C16E C171 C174	DE 00 07	DEC	COLINITED V	0211	20 20 22	LDV	TTU CED
0105	DE 00 07	DEC	COUNTER,A	0213	20 22 02	Jon	SEP
61/1	40 /E 01	JIVIP	CKRAX	C216	E8	INX	
C1/4	A9 5A BVELY	LDA	#\$5A	C217	20 22 C2	JSR	SEP
C176	9D 0C C7	STA	COUNTER,X	C21A	A9 0F	LDA	#\$0F
C179	A0 02	LDY	#2	C21C	8D 19 D0	STA	\$D019
C17B	20 E4 C3	JSR	MVSPY	C21F	4C 31 EA RETIRO	JMP	SEA31
C17E	FF 14 C7 CKBVX	INC	SPXYNO	:			,
C181	AF 14 C7	inx	SPYVNO	: senar	rate players after collision		
C184	RD OC C7	LDA	COUNTED	, copu	ato piayoro artor comercir.		
C107	DD 00 07	CMD	ADOMETI,A	່ຕວວວ	BU UU UU GED	IDΔ	Y DODD
0107	DD 00 C/	CIVIP	ADOVOF,A	COOE	DD 00 D0 3E1	CMD	\$D000,X
UIBA	FU U0	BEU	RAFFY	0220	00 02 00	CIVIE	ΦDUUZ,Λ
C18C	DE OC C7	DEC	COUNTER,X	U228	FU 55	REG	ENDSEP
C18F	4C 02 C2	JMP	REPEAT	C22A	10 2B	BPL	PIGIP2
C192	A9 5A BVELX	LDA	#\$5A	C22C	DE 00 D0	DEC	\$D000,X
C187 C18A C18C C18F C192 C194	9D 0C C7	STA	COUNTER.X	C22F	DE 06 D0	DEC	\$D006.X
C197	A0 02	LDY	#2	C232	10 0C	BPL	SCNT1
C197 C199 C19C C19F C1A1	20 20 C4	JSR	MVSPX	C234	FO 01	CPX	#1
C19C	AF 1F C7	IDY	SCORE	CSSE	FO 08	BEO	SCNT1
C10E	EO 61	BEO	DEDEAT	C230	10 GG	LDA	#\$E6
0131	AO OO	LDA	#0	0230	2D 10 D0	LUM	# OLO
CIAI	M3 VU	LUA	#U @D04E	UZJA	2D 10 D0	AND	かいいい
C1A3	OD 15 DO	SIA	DU015	U23D	OD 10 D0	SIA	かいい
C1A6	re ir U/	INC	SCURE,X	C240	FE 02 DO SCNT1	INC	\$DU02,X
C1A9	A2 01	LDX	#1	C243	FE 08 D0	INC	\$D008,X
C1AB	18	CLC		C246	D0 37	BNE	ENDSEP
C1AC	20 F0 FF	JSR	SFFF0	C248	EO 01	CPX	#1
C1AF	AE 1F C7	LDX	SCORE	C24A	FO 33	BEO	ENDSEP
C1B2	A9 03 A9 17 A9 17 A9 17 A9 17 A9 17 A9 17 A9 18 B0 15 D0 A0 B0 15 D0 A0 B0 15 D0 B0 12 C7 A0 D1 DC B0 13 C7 A0 D1 DC B0 13 C7 A0 D1 DC B0 13 C7 A0 D1 CC B0 13 C7 A0 D1 CC B0 13 C7 A0 D1 CC B0 14 C7 A9 14 C7 A0 D1 CC B0 15 C7 A0 D1 CC C7 A0 D2 C7 A0	LDA	SCORE X	C24C	AA ABD 80 C6 20 D2 FF 88 BD 80 C6 20 D2 FF 88 C20 D2 FF A2 64 A0 FF A2 64 A0 FF A2 64 A0 FF A2 67 BD 1F C7 C9 0F A2 1F A2 0C A0 10 BD 1F C7 C9 0F A2 2C A0 0B B0 17 A2 0C A0 10 B0 FF A2 41 C0 C0 C0 A0 0B C0 B0 C0 C0 B0 C0 C	LDA	#\$12
J.DL	. .	COM		JL-10			4.2

C24E	0D 10 D0	OBA.	\$0010	COER	AN NN	INV	#0
C251	0D 10 D0	CTA	\$D010	COED	20 54 62	ico	MVSPY
6201	סט זט טט	SIA	\$0010	UZFU	20 64 63	JON	IVIVORT
C254	4C 7F C2	JMP	ENDSEP	C300	EE 14 C7 CKVELX	INC	SPXYNO
C257	FE 00 D0 P1GTP2	INC	\$D000.X	C303	AE 14 C7	LDX	SPXYN0
C254 C257 C25A	FE 06 D0	INC	\$D006.X	C306	BD CC C7	LDA	COUNTER.X
C25D	DO OC	RNE	SCNT2	C3U0	DD 06 C7	CMP	COUNTER,X ABSVSP,X
C25F	D0 00	OUL	44	0000	EO 00 01	DEO	VELX
UZDF	EU U1	UPX	#1	6306	FU UC	DEU	VELA
C261	FU 08	REG	SCN12	C30F	DE OC C/	DEC	COUNTER,X
C263	A9 09	LDA	#9	C311	4E 13 C7	LSR	JOY
C265	OD 10 DO	ORA	\$D010	C314	4E 13 C7	LSR	J0Y
C268	8D 10 D0	STA	\$0010	C317	4C 27 C3	.IMP	CKFIRE
C26B	DE 03 DO SCNTS	DEC	¢0003 V	C31A	AO FA VELY	I DA	#\$5A
C26E	DE 02 DO 30N12	DEC	#D002,X	0310	00 00 07	CTA	COUNTER,X
UZDE	DE 00 D0	DEC	φD000,A	6016	3D 0C C/	OIA	COUNTER,A
C2/1	10 00	BPL	ENDSEP	C31F	20 AD C3	JSK	VELSP
C273	E0 01	CPX	#1	C322	AO 00	LDY	#0
C275	FO 08	BEQ	ENDSEP	C324	20 20 C4	JSR	MVSPX
C277	A9 FD	I DA	#\$FD	C327	AD 14 C7 CKFIRF	I DA	SPXYNO SPCTRL
C270	20 10 00	AND	\$0010	C32A	4D 17 C7	FOR	SPCTRI
C271 C273 C275 C277 C279 C27C	2D 10 D0	CTA	\$D010	COOL	00 70	DNE	ENIDON
0276	00 10 00	SIA	Φ D010	0020	00 70	DIVE	ENDCV SPXYNO
C27F	60 ENDSEP	HIS		U321	AE 14 U/	LUX	SPXYNU
;				C332	4E 13 C7	LSR	JOY
; initial	ize sprites			C335	B0 08	BCS	NOFIRE
•	•			C337	BD 1B C7	LDA	FIREON.X
C280	AQ AA INTSP	IΠΔ	#\$4A	C33A	FO OB	BEO	FIREON,X NEWFIRE
C282	00 00 00	CTA	# 	COOL	4C AC C2	IMD	ENDCV
0202	OD 00 D0	OTA	φD000	0000	40 AU US	JIVIT	ENDOV
C285	8D 00 D0	SIA	\$ 1000	UJJF	A9 UU NUFIKE	LUA	#0
C288	A9 90	LDA	#\$90	C341	9D 1B C7	SIA	FIREON,X
C28A C28D C290 C293 C296 C299	8D 01 D0	STA	\$D001	C344	4C AC C3	JMP	ENDCV
C28D	8D 03 D0	STA	\$D003	C347	BD 00 C7 NEWFIRE	LDA	VSP.X
C290	8D 05 D0	STA	\$D005	C34A	8D 05 C7	STA	\$C705
C303	8D 07 D0	CTA	\$D007	C34D	BD 06 C7	IDA	ARGVODY
0230	0D 07 D0	CTA	\$D007	COED	0D 00 07	CTA	4070D
0290	9D 03 D0	SIA	\$D009	6000	OD 0B 07	SIA	VSP,X \$C705 ABSVSP,X \$C70B
C299	8D OR DO	SIA	\$DOOR	C353	BD FF CG	LDA	\$C6FF,X
C29C	A9 0F	LDA	#\$0F	C356	8D 04 C7	STA	\$C704 \$C705,X
C29E	8D 02 D0	STA	\$D002	C359	BD 05 C7	LDA	\$C705.X
C2A1	8D 08 D0	STA	\$0008	C35C	8D 0A C7	STA	\$C70A
C2A4	AQ AC	LDA	#800	C35E	AQ 00	ΙDΔ	#0
C2A6	9D 04 D0	CTA	&DOOA	C361	OD EE CE	CTA	\$C6FF,X
C2A9	0D 0A D0	OTA	#D00A	0001	9D FF CO	OTA	VSP,X
UZA9	80 04 00	SIA	\$D004	6304	90 00 07	SIA	V5P,X
C2AC	A9 12	ĻDA	#\$12	C367	9D 05 C7	SIA	\$C705,X
C2AE	8D 10 D0	STA	\$D010	C36A	9D 06 C7	STA	ABSVSP,X
C2B1 C2B3 C2B6 C2B9 C2BB	A9 FF	LDA	#\$FF	C36D	BD 00 D0	LDA	\$D000,X \$D005
C2B3	8D F8 07	STA	\$07F8	C370	8D 05 D0	STA	\$D005
C2R6	8D F9 07	STA	\$07F9	C373	AD OR DO	STA	\$D00B
CODO	AO EE	LDA	#¢EE	C276	DD EE CE	LDA	&CEEE A
OZDO	00 FA 07	OTA	##IL	0070	00 04 00	CTA	\$CFFF,X \$D004
UZBB	OD FA U/	SIA	\$U/FA	6079	0D 04 D0	SIA	Ф D004
C2BE	8D FB 07	SIA	\$07FB	C3/C	8D OA DO	SIA	\$D00A
C2C1	8D FC 07	STA	\$07FC	C37F	AD 12 C7	LDA	MSGBT
C2C4	A9 04	LDA	#4	C382	2D 10 D0	AND	\$D010
C2C6	8D 27 D0	STA	\$D027	C385	FO OB	RFO	BLT
C2C9	AQ 07	ΙDA	#7	C387	AD 10 D0	ΙDΔ	\$D010
C2CB	8D 38 DO	CTA	enose	C301	00 24	ODA	#\$24
C2CE	8D 20 DU	JIA	#D026	COOM	00 40 00	OTA	\$D010
UZUE	A9 UI	LUA	#1	6306	9D 10 D0	SIA	ゆい のい
C2D0	8D 29 DU	SIA	\$0029	C38F	4C 9A C3	JMP	CNTCV
C2D3	8D 2A D0	STA	\$D02A	C392	AD 10 DO BLT	LDA	\$D010
C2D6	8D 2B D0	STA	\$D02B	C395	29 DB	AND	#\$DB
C2D9	A9 07	IDA	#7	C397	8D 10 D0	STA	\$D010
C2DB	8D 15 DO	STA	9D015	C30V	AO O7 CNTCV	I DA	#7
C2DE	60 10 00	DTC	φυσ13	0000	0D 45 D0	CTA	\$D015
CZDE	00	nio		0390	90 13 00	SIA	จักดเอ
;				UJUF	A9 UU	LUA	#0
; upda	te velocity and sprites			C3A1	8D 17 C7	STA	SPCTRL
;				C3A4	AD 12 C7	LDA	MSGBT
C2DF	BD 0C C7 CKVEL	LDA	COUNTER.X	C3A7	49 FF	EOR	#\$FF
C2E2	DD 06 C7	CMP	ARSVSP X	C3VO	8D 18 C7	STA	BALLMSK
C2E5	EO OC	BEO	VEIV	Cave	EU ENDON	BTG	SALLINON
C2E7	DE 00 07	DEG	COLINTED V	·	OU ENDOV	nio	
02E/	DE UU U/	DEC	WUNTER,X		44		
C2EA	4E 13 U/	LSH	JUY	; add a	accereration		
C2ED	4E 13 C7	LSR	JUY	;			
C2F0	4C 00 C3	JMP	CKVELX	C3AD	AC 14 C7 VELSP	LDY	SPXYN0
C2F3	A9 5A VELY	LDA	#\$5A	C3B0	B9 00 C7	LDA	VSP,Y
C2F5	9D 0C C7	STA	COUNTER X	C3B3	DO 05	BNF	VNO.
C2F8	20 AD C3	JSR	VELSP	Cabe	A0 00 20 E4 C3 EE 14 C7 CKVELX AE 14 C7 DD 06 C7 DD 06 C7 F0 0C C7 4E 13 C7 4E 13 C7 4E 13 C7 4E 13 C7 AD 00 CNTCV AD 00 CNTCV AD 00 C7 AD 00 CNTCV AD 00 CNTCV AD 00 C7 AD 00 CNTCV AD 00 CNTCV AD 00 CNTCV AD 00 CT AD 00 CNTCV AD 00 CNTCV AD 00 CT AD 00 CT AD 00 CT AD 00 CNTCV AD 00 CNTCV AD 00 CT AD	INY	#0
OL: 0	20 110 00	3011	72201	5000	ne 00	LDA	# U

C3B7 4C C5 C3 C3BA 29 80 VNO C3BC F0 05 C3BE A2 01 C3C0 4C C5 C3 C3C3 A2 02 VYPOS C3C5 BC F9 C5 VEND C3C8 4E 13 C7 C3CB BO 03 C3CD 4E 13 C7 VEL24 C3D3 BO 03 C3D5 BC FF C5 C3D0 4E 14 C7 JYEND C3D8 BC F7 C5 C3D8 AE 14 C7 JYEND C3DB 98 C3DD 7D 00 C7 C3E0 9D 00 C7 C3E0 60			C45F 90 13 C461 AD 10 D0 C464 2D 12 C7 C467 F0 0B C469 20 8D C4 C46C B0 06 C46E 20 0E C5 C471 4C 89 C4 C474 FE FF CF INCX C477 FE 05 D0 C47A D0 09 C47C AD 12 C7 C47F 0D 10 D0 C48S 8D 10 D0 C48S 8D 10 D0 C48S 20 EA C4 MXNST C48C 60 ; check left barder	
C3B7 4C C5 C3	JMP	VEND	C45F 90 13 E	BCC INCX
C3BA 29 80 VNO	AND	#\$80 \0/DOC	C461 AD 10 D0 L	LDA \$D010
C3BC F0 05 C3BE A2 01 C3C0 4C C5 C3 C3C3 A2 02 VYPOS C3C5 BC F9 C5 VEND C3C8 4E 13 C7	REG	VYPUS #1	C464 2D 12 C/ /	AND MSGBT
C3CO 4C C5 C3	IMD	# I	C460 20 8D C4	SEU INUX
C3C3 A2 02 VYPOS	LDX	#2	C46C R0 06	BEQ INCX JSR CKSCLT BCS INCX JSR NEGV
C3C5 BC F9 C5 VEND	LDY	JOYO.X	C46E 20 0E C5	ISR NEGV
C3C8 4E 13 C7	LSR	JOY	C471 4C 89 C4	JSH NEGV JMP MXNST NC \$CFFF,X NC \$D005,X BNE MXST LDA MSGBT DRA \$D010
C3CB B0 03	BCS	VEL24	C474 FE FF CF INCX	NC \$CFFF,X
C3CD BC FC C5	LDY	J0Y13,X	C477 FE 05 D0 !	NC \$D005,X
C3D0 4E 13 C7 VEL24	LSR	JOY	C47A D0 09	3NE MXST
C3D3 B0 03	BCS	JYEND	C47C AD 12 C7 L	.DA MSGBT
C3D5 BC FF C5 C3D8 AE 14 C7 JYEND	LDY	SDYVNO	C47F UD 10 D0 (STA \$D010
C3DB 98	TYA	SEXTNO	C485 20 FA C4 MYST	JSR STRNG
C3DB 98 C3DC 18	ĊĽĊ		C488 60 F	RTS
C3DD 7D 00 C7 C3E0 9D 00 C7	ADC	VSP,X	C489 20 EA C4 MXNST J	JSR STRNG
C3E0 9D 00 C7	STA	VSP,X	C48C 60 F	₹TS
C3E3 60	RTS		; , , , , , ,	
; move sprite vertically			Check left border C48D	
, move spine vertically			CARD ED OS CKSCIT (CPX #5
C3E4 BD 00 C7 MVSPY	LDA	VSP.X	C48F D0 57 F	SNE ENDCLC
C3E7 F0 33	BEQ	MYST	C491 AD 17 C7	DA SPCTRL
C3E9 29 80	AND	#\$80	C494 D0 52	SNE ENDCLC
C3EB F0 1A	BEQ	MYDN	C496 BD FF CF. L	DA \$CFFF,X CMP #\$36 BPL CKGLLT
C3ED BD 01 D0	LDA	\$D001,X	C499 C9 36 C	CMP #\$36
C3FO D9 02 C6 C3F3 B0 06 C3F5 20 0E C5 C3F8 4C 1C C4 C3FB DE 01 D0 DECY C3FE DE 07 D0 C401 20 EA C4 C404 4C 1F C4 C407 BD 01 D0 MYDN C40A C8	CMP	ARND'A	C49B 10 06 E	3PL CKGLLT
C3F5 20 0F C5	10D	NEGV	C49D 2U DB C4 J	JSR CKSC JMP ENDSCL
C3F8 4C 1C C4	.IMP	MYST		INIT ENDOCL
C3FB DE 01 DO DECY	DEC	\$D001.X	: check left goal	
C3FE DE 07 D0	DEC	\$D007,X	, 5.10511 1511 952.	
C401 20 EA C4	JSR	STRNG	C4A3 C9 38 CKGLLT C	CMP #\$38
C404 4C 1F C4	JMP	MYEND	C4A5 30 3F	BMI ENDSEC
C407 BD 01 D0 MYDN	LDA	\$D001,X	C4A7 A9 9C L	DA #\$9C ISR \$FFD2
C40A C8	CMD	VDND V	C4A9 20 D2 FF J	SR \$FFD2
C405 D9 02 C0	DOC	YDND,Y	CAAE AD 1E C7	DA #1 STA SCORE DY #\$0A
C410 20 0F C5	JSR	NEGV	CAR1 AN NA I	DV #\$DA
C413 4C 89 C4	JMP	MXNST	C4B3 60 ENDSCL F	TS "TON
C40B D9 02 C6 C40E 90 06 C410 20 0E C5 C413 4C 89 C4 C416 FE 01 D0 INCY	INC	\$D001,X	;	
C419 FE 07 D0	INC	\$D007,X	; check right goal	
C41C 20 EA C4 MYST C41F 60 MYEND	JSR	STRNG	; 04D4 50.05 01400DT	
CATE OU WIYEND	HIS		CABA EU US CKSCRI C	PX #5
, ; move sprite horizontally			C4R8 AD 17 C7	DA SPOTRI
:			CABB DO 2B	INF FNDCIC
C420 BD 00 C7 MVSPX	LDA	VSP,X	C4BD BD FF CF L	.DA \$CFFF.X
C423 F0 60	BEQ	MXST	C4C0 C9 24 C	MP #\$24
C425 10 31	BPL	MXRT	C4C2 30 06	MI CKGLRT
C42/ BUTF CF	LDA	\$CFFF,X	C4C4 20 DB C4 J	ISR CKSC
C42A D9 00 C0	BCS	NDIND, T		INIL ENDOSH
C42F AD 10 D0	LDA	\$D010	, check right goal	
C432 2D 12 C7	AND	MSGBT	; crook right god	
C420 BD 00 C7 MVSPX C423 F0 60 C425 10 31 C427 BD FF CF C42A D9 06 C6 C42D B0 13 C42F AD 10 D0 C432 2D 12 C7 C435 D0 08 C437 20 B4 C4	BNE	DECX	C4CA C9 20 CKGLRT C	MP #32
C437 20 B4 C4	JSR	CKSCRT	C4CC 10 18	JPL ENDSEC
C43A B0 06	BCS	DECX	C4CE A9 9E L	.DA #\$9E
C43C 20 0E C5 C43F 4C 85 C4	JSH	NEGV	C4DU 20 D2 FF J	OK SFFD2
C442 DE FF CF DFCX	DEC	\$CFFF.X	C4D5 8D 1F C7	STA SCORE
C442 DE FF CF DECX C445 DE 05 D0	DEC	\$D005,X	C4D8 A0 23	DY #\$23
C448 10 3F	BPL	MXNST	C4DA 60 ENDCSR F	TS
C44A AD 12 C7	LDA	MSGBT	;	
C44D 49 FF	EOR	#\$FF	; check score	
C44F 2D 10 D0 C452 8D 10 D0	AND	あいいい もいい	CADE AD OF DO OVEC	DA EDODE
C452 6D 10 D0 C455 4C 89 C4	JMP	MXNST	CADE CO 7R	.UA QUUUD !MP #\$7R
C458 BD FF CF MXRT	LDA	\$CFFF.X	C4E0 30 06	MI ENDCLC
C45B C8	INY	,, •	C4E2 C9 A6	MP #\$A6
C45C D9 06 C6	CMP	XBND,Y	Check right goal CAB4	JPL ENDCLC

C4E6	38 ENDS	SEC SEC		C574	A0 02 20 F0 FF A9 B0 A9 B0 B0 C5 A9 AE 20 D2 FF A2 21 C6 FF A9 AD C7 C5 A9 BD C7 C5 A9 DD C5 A2 DD C5 A5 DD C6 A5 DD C6 A5 DD C7 A7	LDY	#2
C4E7	60	RTS		C576	20 F0 FF	JSR	\$FFF0
C4E8	18 END	CLC CLC		C579	A9 B0	LDA	#\$B0
C4E9	60	HIS		C57E	20 D2 FF A2 21	IDX	Ψ\$21
, : undat	te velocity			C580	20 C7 C5	JSR	HLINE
, upuai	ie velocity			C583	A9 AE	LDA	#\$AE
C4EA	BD 00 C7 STR	NG LDA	VSP,X	C585	20 D2 FF	JSR	\$FFD2
C4ED	30 OD	BMI	NEGVSP	C588	A2 16	LDX	#\$16
C4EF	C9 52	CMP	#\$52	C58A	20 F0 FF	JSR	\$FFF0
C4F1	30 05	RMI	SIPABS	CESE	AY AU	LUA	#DAD
CAEE	A9 52 OD 00 C7	LUA STA	#\$32 VSD Y	C507	20 DZ FF A2 21	IDX	#\$21
CAFR	9D 06 C7 STP/	ARS STA	ARSVSP.X	C594	20 C7 C5	JSR	HLINE
C4FB	60	RTS	1.00101,11	C597	A9 BD	LDA	#\$BD
C4FC	C9 AE NEG	VSP CMP	#\$AE	C599	20 D2 FF	JSR	\$FFD2
C4FE	10 05	BPL	STNABS	C59C	A2 04	LDX	#4
C500	A9 AE	LDA	#\$AE	C59E	20 F0 FF	JSK	\$5550
C502	90 00 C/	ADC FOR	VSP,X	CEAS	A9 U0 20 D0 CE	LDA	#3 V/ INE
C507	49 FF 31N	ADO EUN ATA	# GFF ARSVSP Y	C546	Δ2 10	IDX	#\$10
C50A	FF 06 C7	INC	ABSVSP.X	C5A8	20 FO FF	JSR	\$FFF0
C50D	60	RTS		C5AB	A9 05	LDA	#5
;				C5AD	20 D0 C5	JSR	VLINE
; rever	se velocity			C5B0	A2 04	LDX	#4
;	DD 00 07 NEO		Venv	C5B2	AU 20	LUY	#\$20 ecco
CELL	AO EE	V LUA	V3P,X #\$FF	C5R7	20 FU FF 49 05	I DA	#5
C513	9D 00 C7	STA	VSPX	C5B9	20 D0 C5	JSR	VLINE VLINE
C516	FE 00 C7	INC	VSP.X	C5BC	A2 10	LDX	#\$10
C519	60	RTS	,	C5BE	20 F0 FF	JSR	\$FFF0
;				C5C1	A9 05	LDA	#5
; initial	lize screen			C5C3	A9 05 20 D0 C5 60 HLINE 20 D2 FF CA 20 D2 FF CE 22 C7 10 F1 60 String BC 0A C6 TITLE CA BD 0A C6 20 D2 FF CA BD 0A C6 TITLE CA CA BD 0A C6 TITLE CA	JSR RTS	VLINE
C51A	A9 81 INTS	SCN LDA	#\$81	;			
C51C	20 D2 FF	JSR	\$FFD2	; draw	horizontal line		
C51F C521	A2 UU A0 02	LDX	#U #2	, C5C7	AG CO HI INF	IDΔ	#\$00
C523	18	CLC	π2	C5C9	20 D2 FF	JSR	\$FFD2
C524	20 FO FF	JSR	\$FFF0	C5CC	CA	DEX	*
C527	A9 B0	LDA	#\$B0	C5CD	10 F8	BPL	HLINE
C529	20 D2 FF	JSR	\$FFD2	C5CF	60	RTS	
C52C	A2 21	LDX	#\$21				
C52E C531	20 07 05	JSK	HLINE	; oraw	vertical line		
C533	20 D2 FF	JSR	# PAC SFFD2	C5D0	8D 22 C7 VI INF	STA	\$C722
C536	A2 02	LDX	#2	C5D3	A9 DD VCHAR	LDA	#\$DD
C538	20 F0 FF	JSR	\$FFF0	C5D5	20 D2 FF	JSR	\$FFD2
C53B	A9 ED	LDA	#\$ED	C5D8	E8	INX	
C53D	20 D2 FF	JSR	\$FFD2	C5D9	18	CLC	PECEO
C540	A2 21	LDX	#\$21	CSDA	2U FU FF	JSK	みたたし をC722
C542 C545	20 U/ U3 AG RD	1 DV	HLINE #\$RD	CEEU	0E ZZ U/ 10 F1	RPI	VCHAR
C547	20 D2 FF	JSR	\$FFD2	C5F2	60	RTS	VOIDAL
C54A	A2 01	LDX	#1	:	•		
C54C	C8	INY		; print	string		
C54D	20 F0 FF	JSR	\$FFF0				OTDINOO V
C550	A2 0A	LDX	#\$0A	C5E3	BC OA C6 TITLE	LDY	STRINGS,X
C552 C555	20 E3 U5	JSR	111LE #1	C5E7	RD OA CE	ŲΕX	STRINGS,X
C557	AC UI	IDX	#\$0F	C5FA	20 D2 FF	JSR.	\$FFD2
C559	20 FO FF	JSR	\$FFF0	C5ED	CA	DEX	
C55C	A2 21	LDX	#\$21	C5EE	BD 0A C6 TITLP	LDA	STRINGS,X
C55E	20 E3 C5	JSR	TITLE	C5F1	20 D2 FF	JSR	\$FFD2
C561	A2 01	LDX	#1	C5F4	CA	DEX	
C563 C565	AU 10	LDY	#\$10 ecen	USF5	DO ES	DEL	TITI D
C568	20 F0 FF Δ2 15	1 DA 1 DA	φΓΓΓΟ #\$15	CSER	60 FO	RTS	HILF
C56A	20 E3 C5	JSR	TITLE	; data		1110	
C56D	Ã9 99	LDA	#\$99	;			
C56F	20 D2 FF	JSR	\$FFD2	C5F9	00 01 FF JOY0	.BYT	0,1,-1
C572	A2 03	LDX	#3	C5FC	FF FE JOY13	.BYT	-1,-1,-2

C5FF	01 02 01 JOY24	.BYT	1,2,1
C602	4F D2 48 YBND	.BYT	79,210,72,217
C606	2C 2D 25 XBND	.BYT	44,45,37,52
C60A		.ASC	"0 :ELPRUP"
C613	9C 09	.BYT	156,9
C615	30 20 3A	.ASC	"0 :WOLLEY"
C61E	9E 09	.BYT	158.9
C620	4E 55 52	.ASC	"NUR-N-PMUB"
C62A	9F 0A	.BYT	159,10
C62C	52 45 56	.ASC	"REVO EMAG"
C635	9F 09	.BYT	159,9
C637	54 45 53	.ASC	"TESER OT ERIF SS
			ERP"
C64A	9A 13	.BYT	154,19
C64C	18 00 00 SP12	.BYT	24,0,0,24
C650		.BYT	0,0,24,0,0,24,0,0
C658		.BYT	60,0,0,102,0,0,195,0
C660	01 81 80	.BYT	1,129,128,63,0,252,
			63,0
C668	FC 01 81	.BYT	252,1,129,128,0,195
	•		,0,0
C670	66 00 00	.BYT	102,0,0,60,0,0,24,0
C678		.BYT	0,24,0,0,24,0,0,24
C680	ao 30 ao nos	.BYT	160,48,160,49
C684	AO 32 AO	.BYT	160,50,160,51
C688	AO 34 AO	.BYT	160,52,160,53
C68C		.BYT	160,54,160,55
C690		.BYT	160,56,160,57
C694		.BYT	49,48,49,49
C698		.BYT	49,50,49,51
C69C	31 34 31	.BYT	49,52,49,53

Ringside Karate

Source code by Anthony Bertram

3000			*=	\$3000	3148	FC 00		.BYTE	252,0,1,85,0,3,255,0
; white	sprites				3150	03 FA	00 ۱	.BYTE	3,250,0,3,251,0,3,1
3000	00 OF	CO	.BYTE	0,15,192,0,21,80,0,					86
				63	3158	00 03		.BYTE	0,3,170,0,2,170,0,2
3008	F0 00	3F	.BYTE		3160	A0 00	03	.BYTE	160,0,3,160,0,5,231,
0040		••	D) CTC	76,0	2460	45 70	- 00	DVTC	01 117 0 00 05 0 00
3010	3B A8	00	'RA I E	59,168,0,58,160,0,4	3168	15 75	00	.BYTE	21,117,0,29,85,0,29, 85
2010	00 04	00	DVTE	2,160 0,42,0,0,58,0,0,94	3170	00 17	7 55	.BYTE	
3018 3020	00 2A 70 01		.BYTE .BYTE	112,1,87,92,1,117,8	3170	00 17	33	.5116	53
3020	70 01	or .	.DITL	7,1	3178	A9 00) NF	.BYTE	169,0,15,87,0,1,87,0
3028	5D 55	U3	.BYTE	93,85,3,87,90,0,213,	3180	00 00		BYTE	0,0,0,0,0,0,0,0
0020	JD 30	00		170	3188	00 00		.BYTE	0,0,0,0,0,0,0,0
3030	00 36	A8	.BYTE	0,54,168,0,29,112,0,	3190	00 00		.BYTE	0,0,0,0,0,128,0,0
				21	3198	00 00		.BYTE	0,0,0,0,0,0,0
3038	70 00	15	.BYTE	112,0,21,112,0,63,2	31A0	00 00	00 0	.BYTE	0,0,0,0,255,194,128,
				40,15					85
3040	00 00		.BYTE	0,0,0,0,0,0,0,0	31A8	6A 80) 55	.BYTE	106,128,85,106,128,
3048	00 00		.BYTE	0,0,0,0,0,0,0	0400	70.00		DVTE	95,192,0
3050	00 00		.BYTE	0,0,0,0,0,0,0,0	31B0	70 0		.BYTE	112,0,0,192,0,0,0,0
3058	00 00		.BYTE	0,0,0,0,0,0,2,0	31B8	00 00		.BYTE	0,0,0,0,0,0,0,0
3060	00 02	80	.BYTE	0,2,128,0,10,192,0,1	3100	00 0		.BYTE	0,1,87,0,3,255,0,1
0000		00	D) CTC	07	31C8	57 00		.BYTE	87,0,1,87,0,1,87,0
3068	00 00		.BYTE	0,0,108,0,0,112,0,0	31D0	01 5		.BYTE	1,85,0,1,85,0,1,85
3070	CO 00		.BYTE	192,0,0,0,0,0,0,0	31D8	00 0		.BYTE	0,1,93,0,1,92,0,1
3078	00 00		.BYTE	0,0,0,0,0,0,0,11	31E0	5C 0		.BYTE	92,0,5,92,0,21,112,0
3080	00 15	70	.BYTE	0,21,112,0,85,92,0,	31E8	55 C		.BYTE	85,192,1,87,0,5,92,0 21,112,15,10,112,25
2000	FO 04		DVTC	85	31F0	15 /	J UF	.0116	
3088	5C 01		.BYTE	92,1,85,87,1,85,87,1	31F8	FF O	E E0	.BYTE	5,2,175 255,15,240,0,0,0,0,0
3090	55 57	00	.BYTE	85,87,5,95,85,5,112, 21	3200	00 0		.BYTE	0,0,0,0,0,0,0,0
3098	05 70	15	DVTE	5,112,21,21,192,5,2	3208	00 0		.BYTE	0,0,0,0,192,0,0,112
3090	05 70	10	.DTTE	1,192	3210	00 0		.BYTE	0,0,92,0,0,87,0,0
30A0	05 15	m	.BYTE	5,21,192,5,23,0,1,23	3218	55 C			85,192,0,21,192,0,5
30A8	00 01		BYTE	0,1,23,0,1,23,15,1	OLIO	00 0	0 00	.5112	3,192
30B0	17 3F		BYTE	23,63,193,43,255,25	3220	00 3	5.00	.BYTE	0,53,192,0,5,192,0,5
3000	17 01	01	.DITE	4,63,192	3228	COO		.BYTE	192,0,5,192,0,5,192,
30B8	3F 00	00	.BYTE	63,0,0,0,0,0,0,15	OLLO	00, 0			0
30C0	00 00		BYTE	0,0,0,0,0,0,0,0	3230	C5 C	0.00	.BYTE	197,192,0,197,192,0
30C8	00 00		BYTE	0,0,0,0,0,0,0,0	0200				.250,176
30D0	00 00		BYTE	0,0,192,0,0,192,0,0	3238	00 F	F FO	.BYTE	0,255,240,0,0,0,0,0
30D8	CO 00			192,0,0,112,0,0,112,	3240	00 3		.BYTE	0.63.0.0.85.64.0.255
				0	3248	CO 0	0 FE	.BYTE	192,0,254,128,0,254
30E0	00 70	00	.BYTE	0,112,0,0,112,0,0,1					,192,0
				12	3250	EE A	0 00	.BYTE	
30E8	00 00		.BYTE	0,0,112,0,0,112,0,0					,170,128
30F0	70 00	00	.BYTE	112,0,0,172,0,0,252,	3258	00 A	8 00	.BYTE	
				0				D) 555	34
30F8	00 00		.BYTE	0,0,0,0,0,0,0,15	3260	D5 0	0 7A	.BYTE	
3100	00 15	70	.BYTE	0,21,112,0,85,92,0,				D) 475	85,1
			D) CTC	85	3268	55 5	0 05	.BYTE	
3108	5F 01		.BYTE	95,1,85,87,1,85,87,1	0070	45.0		מאלי	80
3110	55 57	UI	.BYTE	85,87,1,95,85,1,112,	3270	15 D	5 54	.BYTE	
3118	04 70	45	.BYTE	21	3278	5D 0	E A1	DVTE	,21,165 93,5,161,117,0,0,21
3110	01 70	15	.0116	1,112,21,1,112,5,1,1	32/0	ט עכ	O AI	.0116	
2120	05 01	70	DVTE	12 5,1,112,5,1,92,1,1	3280	00 0	0.00	.BYTE	3,0 0,0,0,0,0,0,0,0
3120 3128	5C 01		.BYTE	92,1,0,87,1,0,91,193	3288	00 0		.BYTE	
3130	00 6F		BYTE	0,111,241,0,191,254	3290	A0 0		.BYTE	
3130	JU UF	• •	.DITE	,3,240	3230	AU 0	· ••	.0116	0
3138	0F 00	m ·	.BYTE	15,0,0,0,0,0,0,15	3298	6A C	0.00	.BYTE	
3140	00 00			0,0,0,0,0,0,0,0	2200	o, , o	- 50	.5112	08,0
2	22 30			-1-1-1-1-1-1-					

32A0	00 70 00	.BYTE	0,112,0,0,192,0,24,0	3460	00 00 00	.BYTE	0,0,0,0,0,0,0
32A8	01 58 00	.BYTE	1,88,0,21,88,0,85,92	3468	03 FO 00	.BYTE	3,240,0,5,84,0,15,2
32B0	05 55 5C	.BYTE	5,85,92,21,85,240,8	0.00	00 10 00	.0111	52
OLDO	00 00 00	.DITE		3470	00 05 50	DVTC	
2000	00 EE 70	D\CTC	5,92	34/0	00 OF E8	.BYTE	0,15,232,0,15,236,0,
32B8	00 55 70	.BYTE	0,85,112,0,85,192,0,				14
			0	3478	EA 00 0E	.BYTE	234,0,14,168,0,10,1
32C0	00 03 55	.BYTE	0,3,85,0,0,85,0,0				68.2
32C8	55 00 00	.BYTE	85,0,0,85,0,1,85,0	3480	00 00 00	.BYTE	0,0,0,0,0,0,0,0
32D0	01 57 00	.BYTE	1,87,0,1,92,0,1,80	3488	00 00 00	.BYTE	0,0,0,0,0,0,0
32D8	00 05 70	.BYTE	0,5,112,0,5,112,0,5	3490	00 00 00		
32E0	70 00 15					.BYTE	0,0,0,0,0,0,0
3250	70 00 15	.BYTE	112,0,21,192,0,21,1	3498	00 00 00	.BYTE	0,0,0,0,0,0,0
			92,0	34A0	00 00 00	.BYTE	0,0,0,0,0,0,0
32E8	15 CO 00	.BYTE	21,192,0,21,192,0,2	- 34A8	00 00 00	.BYTE	0,0,0,0,0,0,0
			3.0	34B0	00 00 00	.BYTE	0,0,0,0,0,0,0
32F0	00 57 00	.BYTE	0,87,0,0,87,0,0,171	34B8	00 00 00	.BYTE	0,0,0,0,0,0,0,2
32F8	0F 00 FF	.BYTE	15,0,255,255,0,0,0,0	34C0	00 0A 80	.BYTE	0,10,128,0,14,128,0,
3300	57 00 00	BYTE	97 0 0 124 0 0 112 0	0700	00 0A 00	.0116	0,10,120,0,14,120,0,
			87,0,0,124,0,0,112,0				
3308	00 CO 00	.BYTE	0,192,0,0,0,0,0,0	34C8	97 00 05	.BYTE	151,0,5,213,0,21,85,
3310	00 00 00	.BYTE	0,0,0,0,0,0,0				0
3318	00 00 00	.BYTE	0,0,0,0,0,0,0,0	34D0	55 55 00	.BYTE	85,85,0,85,92,1,93,
3320	00 00 00	.BYTE	0,0,0,0,0,0,0,0				92
3328	00 00 00	.BYTE	0,0,0,0,0,0,0,0	34D8	03 C5 5C	.BYTE	3,197,92,13,117,92,
3330	00 00 00	.BYTE		0400	00 00 00	.DITE	
3330	00 00 00	.0116	0,0,0,15,252,0,255,2	0.450			13,95
			55	34E0	FF 35 55	.BYTE	255,53,85,85,53,213
3338	FF FC OF	.BYTE	255,252,15,255,0,0,				,85,53
			0,0	34E8	F5 55 35	.BYTE	245,85,53,197,85,18
3340	00 FC 00	.BYTE	0,252,0,1,85,0,3,255				1,192,0
3348	00 03 FA	.BYTE	0,3,250,0,3,251,0,3	34F0	B5 CO FF	.BYTE	181,192,255,186,20
3350	BA 80 03	.BYTE		3410	D3 00 FF	.DITE	7,055,055,055
3330	DA 00 03	.DTIE	186,128,3,170,0,2,1				7,255,255,255
			70,0	34F8	FF 00 00	.BYTE	255,0,0,0,0,0,0,2
3358	02 AO OO	.BYTE	2,160,0,3,160,0,1,2	3500	00 00 00	.BYTE	0,0,0,0,0,0,0
			24	3508	00 CO 00	.BYTE	0,192,0,0,112,0,0,95
3360	00 05 75	.BYTE	0,5,117,85,5,85,85,5	3510	00 00 55	.BYTE	0,0,85,168,0,21,168,
3368	D5 FF 05	.BYTE	213,255,5,117,192,1		00 00 00	.511.2	0,0,00,100,0,21,100,
0000	50 11 00	.0116	,95,192	3518	0F 00 00	DVTC	•
2270	00 EE CA	DVCCC	,90,192	3310	UF 00 00	.BYTE	15,0,0,53,192,0,213,
3370	03 55 6A	.BYTE	3,85,106,0,213,106,				112
			0,85	3520	00 55 50	.BYTE	0,85,80,0,85,92,0,80
3378	CO 00 55	.BYTE	192,0,85,192,0,255,	3528	57 00 40	.BYTE	87,0,64,21,192,0,21,
			192.0				160
3380	00 00 00	.BYTE	0,0,0,0,0,0,0	3530	FF 05 A8	.BYTE	255,5,168,255,1,252
3388	00 00 00	BYTE	0,0,0,0,176,0,0,172	0000	11 00 70	.5112	,255,255
3390	00 00 B0			2520	FO 00 00	DVCTE	
		.BYTE	0,0,176,0,0,176,0,0	3538	FC 00 00	.BYTE	252,0,0,0,0,0,0,2
3398	BO 00 00	.BYTE	176,0,0,176,0,0,176,	3540	00 00 00	.BYTE	0,0,0,0,0,0,0
			0	3548	00 00 00	.BYTE	0,0,0,0,0,0,0,0
33A0	00 B0 00	.BYTE	0,176,0,0,176,0,0,0	3550	00 00 00	.BYTE	0,0,0,0,0,0,0
33A8	00 00 00	.BYTE	0,0,0,0,0,240,0,0	3558	00 00 00	.BYTE	0,0,0,0,0,0,0,0
33B0	AO OO OO	.BYTE	160,0,0,128,0,0,32,0	3560	00 00 00	.BYTE	0,0,0,0,0,0,0,0
33B8	00 00 00	.BYTE	0,0,0,0,0,0,0,11	3568	00 00 00	BYTE	0,0,0,0,0,0,0,0
33C0	00 15 7F	.BYTE	0,21,127,0,85,85,0,	3570	00 00 00	.BYTE	0,0,0,0,0,0,0,0
			85	3578	00 00 00	.BYTE	0,0,0,0,0,0,0
33C8	55 00 55	.BYTE	85,0,85,85,1,85,85,1	3580	00 00 00	.BYTE	0,0,0,0,0,0,0
33D0	55 FF 01	.BYTE	85,255,1,95,0,1,92,0	3588	00 00 00	.BYTE	0,0,0,0,0,0,0,0
33D8	01 70 00	.BYTE	1,112,0,1,112,0,1,11	3590	00 00 00	.BYTE	0,0,0,0,0,0,0,0
			2	3598	00 00 00	BYTE	0,0,0,0,0,0,0,0
33E0	00 01 70	DVTE	0 1 110 0 1 110 0 1				0,0,0,0,0,0,0,0
		.BYTE	0,1,112,0,1,112,0,1	35A0	00 00 00	.BYTE	0,0,0,0,0,0,0
33E8	70 00 01	.BYTE	112,0,1,112,0,1,112,	35A8	00 00 00	.BYTE	0,0,0,0,0,0,0,0
			0	35B0	00 00 00	.BYTE	0,0,0,0,0,0,0
33F0	01 70 OF	.BYTE	1,112,15,2,179,255,	35B8	00 00 00	.BYTE	0,0,0,0,0,0,0,0
			3.255	35C0	00 ÓO OO	.BYTE	0,0,0,0,0,0,0,0
33F8	FO 00 00	.BYTE	240,0,0,0,0,0,0,15	35C8	00 00 00	BYTE	0,0,0,0,0,0,0,0
3400	00 00 00	.BYTE	0,0,0,0,0,0,0,80,0	35D0	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3408	00 50 00	.BYTE	0,80,0,0,80,0,0,80	35D8	00 00 00	.BYTE	0,0,0,0,0,0,0,0
	00 00 00						0,0,0,0,128,0,30,160
3410	00 00 50	.BYTE	0,0,80,0,0,80,0,0	35E0	00 DE A1	.BYTE	0,222,161,85,222,17
3418	50 00 00	.BYTE	80,0,0,160,0,0,32,0				1,85,223
3420	00 20 00	.BYTE	0,32,0,0,0,0,0,0	35E8	ea d5 df	.BYTE	234,213,223,171,95,
3428	00 00 00	.BYTE	0,0,0,0,0,0,0,0				223.237.85
3430	00 00 00	.BYTE	0,0,0,192,0,0,240,0	35F0	FF FF 55	.BYTE	255,255,85,0,3,213,
3438	00 00 00	BYTE	0,0,0,0,0,0,0,0	3			0,0
3440	00 00 00	.BYTE	0,0,0,0,0,0,0,0	35F8	FF 00 00	.BYTE	255,0,0,0,0,0,0,0
3448	00 00 00						
		.BYTE	0,0,0,0,0,0,0	3600	00 00 00	.BYTE	0,0,0,0,0,0,0
3450	00 00 00	.BYTE	0,0,0,0,0,0,0,0	3608	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3458	00 00 00	.BYTE	0,0,0,0,0,0,0	3610	00 00 00	.BYTE	0,0,0,0,0,0,7,0

3618	00 15 CO	.BYTE	0,21,192,0,85,112,!,	3778	CO 00 00	.BYTE	192,0,0,0,0,0,0,15
			85	3780	00 00 00	.BYTE	0,0,0,0,0,0,0
3620	70 D5 5D	.BYTE	112,213,93,112,213,	3788	00 00 00	.BYTE	0,0,0,0,0,0,0,0
	04 70 07	D) 655	113,112,215	3790	00 00 00	.BYTE	0,0,0,0,0,0,0,2
3628	C1 70 D5	.BYTE	193,112,213,127,11	3798	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3630	5D 55 5E	.BYTE	2,117,85,242 93,85,94,87,245,90,	37A0 37A8	00 00 00 AB FF 02	.BYTE .BYTE	0,0,0,0,2,129,85,2 171,255,2,171,255,0
3030	3D 33 3E	.DTTE	214,173	SIMO	AD FF UZ	.DITE	,1,95
3638	5A F6 AF	.BYTE	90,246,175,255,63,2	37B0	00 00 07	.BYTE	0,0,7,0,0,1,0,0
0000	G1.1071	.51.12	40,0,0	37B8	00 00 00	.BYTE	0,0,0,0,0,0,0,0
: black	player sprites		.0,0,0	37C0	00 00 00	.BYTE	0,0,0,0,0,0,63,0
3640	00 00 00	.BYTE	0,0,0,0,0,0,0,0	37C8	00 55 40	.BYTE	0,85,64,0,255,192,0,
3648	00 00 00	.BYTE	0,0,0,0,0,0,0,0				175
3650	00 00 00	.BYTE	0,0,0,0,0,0,0	37D0	CO 00 EF	.BYTE	192,0,239,192,0,174
3658 3660	00 00 00	.BYTE	0,0,0,0,0,0,0,0	37D8	AA CO OO	.BYTE	,192,0 170,192,0,170,128,0
3000	BO 00 02	.BYTE	176,0,2,176,0,0,172,	3/00	AA CO 00	.DITE	,10,128
3668	00 2B 00	.BYTE	0,43,0,0,11,0,0,3	37E0	00 0A 40	.BYTE	0,10,64,0,121,240,0,
3670	00 00 03	BYTE	0,0,3,0,0,0,0,0		55 511 15		247
3678	00 00 00	.BYTE	0,0,0,0,0,0,0,11	37E8	FC 00 FF	.BYTE	252,0,255,223,0,255
3680	03 F0 00	.BYTE	3,240,0,5,84,0,15,2				,223,0
			52	37F0	FF 7F 00	.BYTE	255,127,0,234,255,0
3688	00 OA FC	.BYTE	0,10,252,0,14,252,0,	2750	00 25 50	DVTC	,234,244
3690	EC 00 04	.BYTE	42	37F8 3800	00 3F 50 00 00 00	.BYTE .BYTE	0,63,80,0,63,240,0,0 0,0,0,0,0,0,0
3090	EC 00 0A	.DITE	236,0,10,172,0,10,1 68,0	3808	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3698	00 A8 00	.BYTE	0,168,0,0,164,0,7,1	3810	00 02 00	.BYTE	0,2,0,0,10,0,0,42
			59	3818	00 00 AA	.BYTE	0,0,170,0,0,171,0,0
36A0	CO 1F 7F	.BYTE	192,31,127,192,127,	3820	AC 00 00	.BYTE	172,0,0,172,0,0,172,
			247,240,255				0
36A8	DF F0 AF	.BYTE		3828	00 AC 00	.BYTE	0,172,0,0,172,0,0,1
0000	04 77 00	D) CTE	0,170,253,192	0000	00 00 40	DVTT	72
36B0	2A 77 CO	.BYTE	42,119,192,3,223,19 2,3,255	3830 3838	00 00 AC 5F 00 03	.BYTE .BYTE	0,0,172,0,0,172,0,1 95,0,3,255,0,0,0,0
36B8	00 03 FF	.BYTE	0,3,255,0,1,87,0,15	3840	2A BO 00	.BYTE	42,176,0,21,112,0,4
36C0	00 00 00	.BYTE	0,0,0,0,0,0,0,0	0010	24 00 00	.5112	2,176
36C8	00 00 00	BYTE	0,0,0,0,0,0,0,0	3848	00 2A B0	.BYTE	0,42,176,0,42,176,0,
36D0	00 00 00	.BYTE	0,0,0,0,0,0,0				170
36D8	00 00 00	.BYTE		3850	BO 00 AA	.BYTE	176,0,170,176,0,170
36E0	02 00 00	.BYTE	2,0,0,2,0,0,2,0		D4 D0 00	D) 675	,176,0
36E8	00 02 00	.BYTE	0,2,0,0,2,0,0,2	3858	BA BO 00	.BYTE	186,176,0,202,176,0
36F0 36F8	00 00 02 0F 00 00	.BYTE .BYTE	0,0,2,0,0,5,0,0 15,0,0,0,0,0,15	3860	00 0A AC	.BYTE	,10,176 0,10,172,0,2,171,0,0
3700	02 AB 00	.BYTE		3868	AA CO OO	.BYTE	170,192,0,42,176,0,
0/00	02 AD 00	.DITE	10,170	0000	74.00.00	.51112	10.172
3708	CO 2A AA	.BYTE	192,42,170,176,42,1	3870	FO 02 A8	.BYTE	240,2,168,255,2,92,
			70,176,42				255,245
3710	aa bo aa	.BYTE	170,176,170,250,17	3878	7C 00 0F	.BYTE	124,0,15,252,0,0,0,0
			2,171,2,172	3880	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3718	AB 02 AC	.BYTE		3888	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3720	AB AC 00	.BYTE	,172,0 171,172,0,171,176,0	3890	0A 00 00	.BYTE	10,0,0,10,192,0,2,1 76
3720	רים עור עו	.0116	,43,176	3898	00 00 AD	.BYTE	0,0,173,0,0,43,0,0
3728	00 2B B0	.BYTE		38A0	0B 00 00	.BYTE	11,0,0,1,27,192,0,26
			40,43	38A8	BC 00 1A	.BYTE	188,0,26,171,0,10,1
3730	B3 FC 2B	.BYTE	179,252,43,127,255,				70,240
			23,252,3	38B0	oa aa ac	.BYTE	10,170,172,0,170,17
3738	FF 00 00	.BYTE		2020	44.00.00	D)/TE	1,0,10
3740	02 AB 00	.BYTE		38B8	AA 00 02	.BYTE	170,0,2,170,0,0,170,
3748	CO 2A AA	.BYTE	10,170 192,42,170,176,42,1	38C0	03 FO 00	.BYTE	3,240,0,5,84,0,15,25
0770	00 2A AA	.DITE	70,176,42	0000	00 10 00	.01112	2
3750	AA BO AA	.BYTE		38C8	00 0A FC	.BYTE	0,10,252,0,14,252,0,
			6,171,2,176				42
3758	AB 02 B0	.BYTE	171,2,176,172,2,176	38D0	EC 00 0A	.BYTE	236,0,10,172,0,10,1
2700	DO AC 00	חותר	,172,2 176 170 0 176 176 1	2000	00 40 00	חיייי	68,0
3760	B0 AC 02	.BYTE	176,172,2,176,176,1 0,176,176	38D8	00 8A 00	.BYTE	0,168,0,0,168,0,85,1 69
3768	0A B0 B0	.BYTE		38E0	00 FD A7	.BYTE	0,253,167,192,255,9
57.00		.DITL	91,26,192	5525	30 15 AI	.5112	5,192,95
3770	BF C6 C0	.BYTE	191,198,192,127,25	38E8	FF FO OF	.BYTE	255,240,15,255,240,
			3,192,240,15				15,255,252

38F0	3F FF FC	BYTE	63,255,252,127,255,	3A78	FO 00 00	.BYTE	240,0,0,0,0,0,0,15
			124,159,250	3A80	00 00 00	.BYTE	0,0,0,0,0,0,0,0
38F8	FC A7 FA	.BYTE		3A88	00 00 00	.BYTE	0,0,0,0,0,0,0,0
			9,252,80,0	3A90	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3900	00 00 2A	.BYTE	0,0,42,0,0,10,0,0	3A98	00 00 00	.BYTE	0,0,0,0,0,0,0
3908	02 00 00	.BYTE	2,0,0,0,0,0,0,0	3AA0	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3910	00 00 00	.BYTE	0,0,0,0,0,0,0,0	3AA8	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3918	00 00 00	.BYTE	0,0,0,0,0,0,0	3AB0	00 00 00	.BYTE	0,0,0,0,0,0,0
3920	00 00 00	.BYTE	0,0,0,0,0,0,0	3AB8	00 00 00	.BYTE	0,0,0,0,0,0,0,11
3928	00 00 00	.BYTE	0,0,0,0,0,0,0	3ACO	00 00 00	.BYTE	0,0,0,0,0,0,0
3930	00 00 00	.BYTE	0,0,0,0,15,252,255,2	3AC8	00 00 00	.BYTE	0,0,0,0,0,0,0
			55	3AD0	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3938	FF FF CO	.BYTE	255,255,192,63,0,0,	3AD8	00 00 00	.BYTE	0,0,0,0,0,0,0,0
			0,0	3AE0	00 00 00	.BYTE	0,0,0,0,0,0,0,15
3940	AA CO OO	.BYTE	170,192,0,170,192,0	3AE8	CO 00 15	.BYTE	192,0,21,80,0,63,24
3948	00 44 00	DVTE	,170,192	2450	00 50 00	חיידר	0,0
3940	00 AA CO	.BYTE	0,170,192,0,170,176	3AF0	2B F0 00	.BYTE	43,240,0,59,240,0,1
3950	BO 00 0A	.BYTE	,0,42 176,0,10,176,0,10,1	3AF8	00 2A B0	.BYTE	71,176 0,42,176,0,42,160,0,
3930	DU 00 0A	.DITE	76.0	JAFO	00 ZA BU	.DT 1E	0,42,170,0,42,100,0,
3958	02 AC 00	.BYTE	2,172,0,2,172,0,2,1	3B00	00 00 00	.BYTE	0,0,0,0,0,0,0,0
0000	02 / D 00	.5112	72	3B08	00 00 00	.BYTE	0,0,0,1,0,0,7,0
3960	00 00 AB	.BYTE	0,0,171,0,0,171,0,0	3B10	28 OF 00	.BYTE	40,15,0,42,173,0,42,
3968	AB 00 00	.BYTE	171,0,0,171,0,0,43,0	02.0	20 01 00	.52	164
3970	00 2A 00	.BYTE	0,42,0,0,42,0,255,2	3B18	00 00 F0	.BYTE	0,0,240,0,0,172,0,2
			13	3B20	AB 00 0A	.BYTE	171,0,10,170,0,10,1
3978	00 FF FF	.BYTE	0,255,255,0,0,0,0,0				70.0
3980	00 00 00	.BYTE	0,0,0,0,0,0,0,0	3B28	2A FA 00	.BYTE	42,250,0,171,2,5,17
3988	00 00 00	.BYTE	0,0,0,0,0,0,11,0				1,0
3990	00 2B 00	.BYTE	0,43,0,0,11,0,0,11	3B30	15 AC 0F	.BYTE	21,172,15,63,176,25
3998	00 00 0B	.BYTE	0,0,11,0,0,11,0,0				5,63,255
39A0	OB 00 00	.BYTE	11,0,0,11,0,0,11,0	3B38	FF 00 00	.BYTE	255,0,0,0,0,0,0,2
39A8	00 00 00	.BYTE	0,0,0,0,0,0,0,15	3B40	02 AO OO	.BYTE	2,160,0,2,144,0,94,1
39B0	00 00 0A	.BYTE	0,0,10,0,0,2,0,0				12
39B8	08 00 00	.BYTE	8,0,0,0,0,0,0,11	3B48	00 FD F4	.BYTE	0,253,244,0,255,253
3900	00 3F 00	.BYTE	0,63,0,0,85,64,0,255	2050	FF 40 0F	DVCTE	,0,95
39C8	CO 00 AF	.BYTE	192,0,175,192,0,239	3B50	FF 40 0F	.BYTE	255,64,15,255,192,1
39D0	AE CO 00	.BYTE	,192,2 174,192,0,170,192,0	3B58	0F F1 1C	.BYTE	5,247,28 15,241,28,15,254,17
3900	AE 00 00	.DTTE	,170,128	3030	OF FI TO	.DITE	6,245,122
39D8	00 OA 80	.BYTE	0,10,128,0,10,64,85,	3B60	B4 AA AA	.BYTE	180,170,170,172,17
0000	00 0/1 00	.5112	89	0000	D4 /01/01	.5112	0,171,172,170
39E0	FO FF F7	.BYTE	240,255,247,240,25	3B68	AF AC AA	.BYTE	175,172,170,163,17
			5,255,240,85				2,0,3,174
39E8	FD F0 00	.BYTE	253,240,0,247,240,5	3B70	FF F3 AE	.BYTE	255,243,174,255,25
			3,95,240		•		5,94,255,255
39F0	AF FF 70	.BYTE	175,255,112,175,25	3B78	FF 00 00	.BYTE	255,0,0,0,0,0,0,2
			5,240,5,85	3B80	00 00 00	.BYTE	0,0,0,0,0,0,0
39F8	CO 03 FF	.BYTE	192,3,255,192,1,85,	3B88	00 00 00	.BYTE	0,0,0,0,0,0,0
			192,0	3B90	00 00 00	.BYTE	0,0,0,0,0,0,0
3A00	00 00 00	.BYTE	0,0,0,0,0,0,0	3B98	00 00 00	.BYTE	0,0,0,0,0,0,0
3A08	0A 00 00	.BYTE	10,0,0,10,0,0,10,0	3BA0	00 00 00	.BYTE	0,0,0,0,0,0,0
3A10	00 AO 00	.BYTE	0,10,0,0,10,0,0,10	3BA8	00 00 00	.BYTE	0,0,0,0,0,0,0
3A18 3A20	00 00 0A 04 00 00	.BYTE	0,0,10,0,0,5,0,0	3BB0 3BB8	00 00 00 00 00 00	.BYTE .BYTE	0,0,0,0,0,0,0
3A20 3A28	00 00 00	.BYTE .BYTE	4,0,0,4,0,0,0,0 0,0,0,0,0,0,0,0	3BC0	00 00 00	.BYTE	0,0,0,0,0,0,0,11 0,0,0,0,0,0,0,0
3A30	00 00 00	.BYTE	0,0,0,0,0,0,3,0,0	3BC8	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3A38	OF 00 00	.BYTE	15,0,0,0,0,0,0,0	3BD0	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3A40	FE AB 00	.BYTE	254,171,0,170,170,1	3BD8	00 00 00	.BYTE	0,0,0,0,0,0,0,0
0/110	12 715 00	.5112	92,170,170	3BE0	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3A48	CO AA AA	.BYTE	192,170,170,192,17	3BE8	00 00 00	.BYTE	0,0,0,0,0,0,0,0
			0,170,176,192	3BF0	00 00 00	.BYTE	0,0,0,0,0,0,0,0
3A50	AA BO CO	.BYTE	170,176,192,10,176,	3BF8	00 00 00	.BYTE	0,0,0,0,0,0,0,0
			192,10,176	3000	00 00 00	.BYTE	0,0,0,0,0,0,0
3A58	CO 02 BO	.BYTE	192,2,176,192,2,176	3008	00 00 00	.BYTE	0,0,0,0,0,0,0
	no oo	-	,0,2	3010	00 00 00	.BYTE	0,0,0,0,0,0,44,0
3A60	B0 00 02	.BYTE	176,0,2,176,0,2,176,	3C18	00 AB 00	.BYTE	0,171,0,2,170,192,2,
0400	00 00 00	Diese	0 476 0 0 476 0 0 4	0000	DE 00 D4	0).77	170
3A68	02 B0 00	.BYTE	2,176,0,2,176,0,2,1 76	3C20	BF 02 BA	.BYTE	191,2,186,169,2,142
3A70	3F C2 B0	.BYTE	63,194,176,255,253,	3C28	92 E0 00	.BYTE	,169,2 131,233,2,254,169,7
UNIU	01 02 00	שווט.	112,192,255	3020	83 E9 02	.bric	9,170,165
							0,170,100

3C30	7A AA 9A	.BYTE	122,170,154,90,175, 234,90,186 165,255,250,175,0,1 5,252,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 0,0,0,0,0,0 180,255,202,183,25 5,106,183,253 171,247,95,106,247, 255,219,247 255,255,255,255,19 2,0,255,0 0,0,0,0,0,0,0	3CD4	8D FE 07	STA	2046
			234,90,186	3CD7	A9 DC	LDA	#220
3C38	A5 FF FA	'RA I E	165,255,250,175,0,1	3009	8D FF O7 A9 B4 B0 55 D0 8D 07 D0 8D 07 D0 8D 0D D0 8D 01 D0 A9 A0 8D 01 D0 8D 09 D0 8D 08 D0 8D 09 D0 8D 08 D0 8D 09 D0 8D 08 D0 A9 51 A9 60 B0 00 D0 A9 60 B0 00 D0 A9 B4 B0 00 D0 A9 B4 B0 00 D0 A9 B0 B0 D0 A9 B0 B0 D0 A9 B0 B0 D0 A9 CC BD 06 BD 06 D0 A9 CC BD 06 BD 06 D0 A9 CC BD 06 BD 07 BD 07 BD 08 BD 00 BD	STA LDA	2047 #180
3C40	00 00 00	.BYTE	0.0.0.0.0.0.0.0	3CDE	8D 05 D0	STA	V+5
3C48	00 00 00	.BYTE	0,0,0,0,0,0,0,0	3CE1	8D 07 D0	STA	V+7
3050	00 00 00	.BYTE	0,0,0,0,0,0,0,0	3CE4	8D 0D D0	STA	V+13
3C58 3C60	00 00 00 B4 FF CA	BYTE.	0,0,0,0,2,0,0,10 180 255 202 183 25	3CEA	8D 0F D0 A0 A0	SIA	V+15 #160
5000	DT II ON	.DITE	5.106.183.253	3CEC	8D 01 D0	STA	V+1
3068	AB F7 5F	.BYTE	171,247,95,106,247,	3CEF	8D 03 D0	STA	V+3
0070	rr	D) CTC	255,219,247	3CF2	8D 09 D0	STA	V+9
3C70	FF FF FF	.BY I E	255,255,255,255,19	30F5	8D UB DU AQ 51	SIA I DA	V+11 #81
3078	00 00 00	.BYTE	0.0.0.0.0.0.0.0	3CFA	8D 00 D0	STA	ν̈́
;				3CFD	8D 04 D0	STA	V+4
3080	EA	NOP		3D00	A9 69	LDA	#105
3C81	EA	NOP		3D02 3D05	8D 02 D0	SIA	V+2 V+6
;*=15	i490			3D08	A9 B4	LDA	#180
:				3D0A 3D0D	8D 08 D0	STA	V+8 V+12 #204
3082	TESTBT1	=	\$FB	3D0D	8D 0C D0	STA	V+12
3C82 3C82	TESTBT1 TESTBT2 SCOR1 SCOR2 LINPRT V	=	\$FB \$FC 828 830 \$BDCD 55248 54272	3D10 3D12	AS CC	STA	#204 V+10
3082	SCOR2	=	830	3D15	8D OF DO	STA	V+14
3082	LINPRT	=	\$BDCD	;			
3082	V S	=	53248	main	loop		
3C82 3C82	JY1	522	54272 56321	3D18	AD 00 DC JOY2 29 10 D0 35 A5 FC D0 31 AD 00 DC 29 0F C9 0A D0 08 A9 E2 20 CE 3E 4C BF 3D C9 09 LOKIK2 D0 08 A9 EA	IΠΔ	JY2
3082	JY2	52	56320	3D1B	29 10	AND	#16
3082	DIOT	=	\$FFF0	3D1D	DO 35	BNE	STIC2
3082	CHROUT	=	\$FFD2	3D1F	A5 FC	LDA	TESTBT2
3082	20 A0 40 BEGINING 20 93 40 A9 00 8D 3C 03 8D 3D 03 8D 3E 03 8D 3F 03	ISB	SCREEN SID #0 828 829 830 831	3D21 3D23 3D26 3D28 3D2A 3D2C 3D2E	AD 00 DC	I DA	STIC2 JY2
3085	20 93 40	JSR	SID	3D26	29 OF	AND	#15
3088	A9 00	LDA	#0	3D28	C9 0A	CMP	#10
3C8A 3C8D	8D 3C 03	STA	828	3D2A	DO 08	BNE	LOKIK2 #226
3090	8D 3F 03	STA	830	3D2C	20 CF 3F	JSR	#220 GEN2
3093	8D 3F 03	STA	831	3D31	4C BF 3D	JMP	JOY1
;				3D34	C9 09 LOKIK2	CMP	#9
;set up	sprites			3D36 3D38	DU 08 A9 EA	LDA BNF	PUNCH2
3096	A9 FF START	I DA	#255	3D3A	20 CF 3F	JSR	#234 GEN2
3C98	8D 15 D0	STA	V+21	3030	20 CE 3E 4C BF 3D		JOY1
3C9B	8D 1C D0	STA	V+28	3D40 3D42 3D44	US UD FUNUNZ	CMP	#11
3C9E 3CA0	A9 U1	LDA	#1 V⊥27	3D42	DO 08 A9 DE	BNE LDA	BLOCK2 #222
3CA3	A9 00	LDA	#0	3D46	20 CE 3E	JSR	GEN2
3CA5	8D 26 D0	STA	V+38	3D46 3D49	4C BF 3D	JMP	JOY1
3CA8 3CAA	A9 FF START 8D 15 D0 A9 01 8D 25 D0 A9 00 8D 26 D0 A2 00 A2 00 A9 00 BD 27 D0 E8 E0 08 D0 F6	LDX	#255 V+21 V+28 #1 V+37 #0 V+38 #0 V+39,X	3D4C 3D4E	4C BF 3D A9 E6 BLOCK2 20 CE 3E	LDA JSR	#230
3CAC	AS UA SPRUUL	STA	# 10	3D4E 3D51	20 CE 3E 4C BF 3D	JMP	GEN2 JOY1
3CAF	E8	INX	¥ 1 00,70	:	40 DI 0D	Olvii	0011
3CB0	E0 08	CPX BNE	#8	;move	black		
3CB2	D0 F6	BNE	SPRCOL	; 3D54	AD OO DO CTICO	1.04	JY2
startin	g positions			3D57	29 10	AND	#16
;	g positions			3D59	FO 04	BEQ	FOB3
3CB4	A9 CO DEFAULT	LDA	#192 2040 #193 2041 #194	3D5B	AD 00 DC STIC2 29 10 F0 04 A9 00	LDA	#0
3CB6 3CB9	8D F8 07	STA	2040	3D5D	85 FG	SIA	TESTBT2
3CBB	8D F9 07	STA	#193 2041	3D5F 3D62	AD 00 DC FOB3 29 OF	LDA AND	JY2 #15
3CBE	A9 C2	LDA	#194	3D64	C9 0F	CMP	#15
3000	8D FA 07	STA	2042	3D66	DO 03 4C BF 3D	BNE	FOB4
3CC3 3CC5	A9 03 8D FR 07	LUA	#195 2043	3D68 3D6B	4C BF 3D 38 FOB4	JMP	J0Y1
3CC8	A9 D9	LDA	#217	3D6C	38 FOB4 C9 08	SEC CMP	#8
3CCA	8D FC 07	STA	2044	3D6E	90.30	RCC	BACKW2
3CCD	A9 DA	LDA	#218	3D70	AD OE DO	LDA	V+14
3CCF 3CD2	A9 C0 DEFAULT 8D F8 07 A9 C1 8D F9 07 A9 C2 8D FA 07 A9 C3 8D FB 07 A9 D9 8D FC 07 A9 D9 8D FC 07 A9 DB	LDA	2045 #219	3D73 3D74	AD 0E D0 18 C9 28	CLC CMP	#40
			•	35.4		01111	40

S076 B0 03 S078 AC BF 30
S076 AO BO D FORWD2 LDA V+8 S18 C3 2D CMP #45
3076 AD 08 DO FORWD2
SOFTE 100 DO DO DO SBC V S1E 4C 6C 3E JMP ENLP
307F ED 00 DO SBC V 361F 4C 6C 3E JMP ENLP 3084 B0 03 BCS FORL2 3E24 CE 00 D0 BAL DEC V+2 3086 4C BF 3D JMP J0Y1 3E27 CE 02 D0 DC V+2 3089 A2 05 FORL2 DLX #5 3E2A CE 04 D0 DEC V+4 3080 EC 08 D0 FAL2 DEC V+8 3E2D CE 06 D0 DEC V+4 3080 EC 08 D0 FAL2 DEC V+10 3E30 CE 06 D0 DEC V+6 3091 CE 0C D0 DEC V+12 3E31 D0 F1 BNE BAL2 3E31 D0 F1 BNE BAL2 3E33 BE FA 07 INC 2042 3099 CE 0E D0 DEC V+14 3E33 EF FA 07 INC 2042 3099 D0 F1 BNE FAL2 3E39 AC 6C 3E JMP ENLP 3090 AE FF F0 7 INC 2047 3E3C AD 08 D0 FORW LDA V+8 3090 AE FF F0 7 INC 2047 3E3C AD 08 D0 FORW LDA V+8 3090 AD 0E D0 BACKW2 LDA V+14 3E40 ED 00 D 0 SBC V 300A AD 0E D0 BACKW2 LDA V+14 3E40 ED 00 D 0 SBC V 300A AD 0E D0 BACKW2 LDA V+14 3E40 ED 00 D 0 SBC V 300A AD 0E D0 BACKW2 LDA V+14 3E40 ED 00 D 0 SBC V 300A AD 0E D0 BACKW2 LDA V+14 3E40 ED 00 D FORL LDA V+8 300A 62 BB CMP #235 3E45 B0 03 BCS FORL 300A 62 BB CMP #235 3E45 B0 03 BCS FORL 300A 62 BB CMP #235 3E45 B0 03 BCS FORL 300A 62 DB BACKWD LDX #5 3E4D 3B CS FORL 300A 62 DB DB BACKWD LDX #5 3E4D 3B CS FORL 300B EC 0A DO INC V+10 3E5D 90 03 BCC FORWD 300B EE 0A DO INC V+14 3E5S AZ 05 FORWD LDX #5 300B EE 0C DO INC V+14 3E5S AZ 05 FORWD LDX #5 300B EE 0C DO INC V+14 3E5S AZ 05 FORWD LDX #5 300B EE 0C DO INC V+14 3E6D EE 0D FAL INC V+2 300B EE 0C DO INC V+14 3E5S AZ 05 FORWD LDX #5 300B EE 0C DO INC V+14 3E5S AZ 05 FORWD LDX #5 300B EE 0C DO INC V+14 3E6D EE 0D FAL INC V+2 300B EE 0C DO INC V+14 3E6D EE 0D FAL INC V+2 300B EE 0C DO INC V+14 3E6D EE 0D FAL INC V+2 300B EE 0C DO INC V+14 3E6D EE 0D FAL INC V+2 300B EE 0C DO INC V+14 3E6D EE 0D FAL INC V+2 300B EE 0C DO INC V+14 3E6D EE 0D FAL INC V+2 300B EE 0C DO INC V+14 3E6D EE 0D FAL INC V+2 300B EE 0C DO INC V+14 3E6D EE 0D FAL INC V+2 300B EE 0C DO INC V+14 3E6D EE 0D FAL INC V+2 300B EE 0C DO INC V+14 3E6D EE 0D FAL INC V+2 300B EE 0C DO INC V+10 3E6D EE 0B DO INC V+6 300B EE 0C DO INC V+10 3E6D EE 0B DO INC V+6 300B EE 0C DO INC V+10 3E6D EE 0B DO INC V+6 300B EE 0C DO INC V+1
3082 C9 14 CMP #20 3E22 A2 05 BACKWD LDX #5 3084 B0 03 BCS FORL2 3E24 CE 00 D0 BAL DEC V- 3086 4C BF 3D JMP JOY1 3E27 CE 02 D0 BAL DEC V- 3088 CE 08 D0 FAL2 DEC V-+8 3E2D CE 06 D0 DEC V-+2 3088 CE 08 D0 FAL2 DEC V-+8 3E2D CE 06 D0 DEC V-+6 308E CE 0A D0 DEC V-+10 3E30 CA DEX 309F CE 0A D0 DEC V-+12 3E31 D0 F1 BNE BAL 309F CE 0A D0 DEC V-+14 3E33 EE FA 07 INC 2042 3098 D0 F1 BNE FAL2 3E31 D0 F1 SNE BAL 3099 CE 0A D0 DEC V-+14 3E33 EE FA 07 INC 2042 3098 D0 F1 BNE FAL2 3E39 4C 8C 3E JMP ENLP 3090 AD 0E D0 BACKW2 DAV V-+14 3E37 3B EF FA 07 INC 2042 3098 D0 F1 BNE FAL2 3E37 BD F1 SNE FAL2 3098 D0 F1 BNE FAL2 3E39 4C 8C 3E JMP ENLP 3090 4C BF 3D SNE FAL2 3E35 3E45 B0 03 BCS FORL 30A0 AD 0E D0 BACKW2 JMP JOY1 3E3F 3B SEC 30A4 CS EB CMP #2235 3E45 B0 03 BCS FORL 30A6 90 03 BCC BACKWD2 3F4 AC 8C 3E JMP ENLP 30A8 A2 D5 BACKWD2 LDX W-5 SAC 3E 3E43 SB 0C BCS FORL 30A8 A2 D5 BACKWD2 LDX W-5 SAC 3E 3E45 B0 03 BCS FORL 30A8 A2 D5 BACKWD2 LDX W-5 SAC 3E 3E45 B0 03 BCS FORL 30A8 A2 D5 BACKWD2 LDX W-5 SAC 3E 3E45 B0 03 BCS FORL 30A8 A2 D5 BACKWD2 LDX W-5 SAC 3E 3E45 B0 03 BCS FORL 30A8 A2 D5 BACKWD2 LDX W-5 SAC 3E 3E45 B0 03 BCS FORL 30A8 A2 D5 BACKWD2 LDX W-5 SAC 3E 3E45 B0 03 BCS FORL 30A8 A2 D5 BACKWD2 LDX W-5 SAC 3E 3E45 B0 03 BCS FORL 30A8 A2 D5 BACKWD2 LDX W-5 SAC 3E 3E45 B0 03 BCS FORL 30A8 A2 D5 BACKWD2 LDX W-5 SAC 3E 3E45 BC CD C SAC 3E 3E45 BC CD CD SAC 3E
SDB6 4C BF 3D
3089 AC 9F 3D JMP JOY1 327 CE 02 DO DEC V+2 3089 AC 95 FORL2 LDX #5 3E2A CE 04 DO DEC V+4 308B CE 08 DO FAL2 DEC V+8 32D CE 06 DO DEC V+6 3091 CE 00 DO DEC V+10 3E3O CA 3091 CE 0C DO DEC V+12 3E31 DO F1 BNE BAL 3094 CE 0E DO DEC V+12 3E31 DO F1 3097 CA DEX 3098 DO F1 BNE FAL2 3E33 EE FA 07 INC 2042 3098 BO F1 BNE FAL2 3E33 EE FA 07 INC 2042 3098 DO F1 BNE FAL2 3E33 BE FA 07 INC 2042 3098 DO F1 BNE FAL2 3E30 BD F0RW LDA V+8 3090 AC BF 3D JMP JOY1 3E3F 3B SEC 3000 AD DE DO BACKW2 LDA V+14 3E40 ED 00 DD SBC V 3000 AD DE DO BACKW2 LDA V+14 3E40 ED 00 DD SBC V 3000 AD DE DO BACKW2 LDA V+14 3E40 ED 00 DD SBC V 3000 AD DE DO BACKW2 LDA V+14 3E40 BD FORW LDA V+8 3000 AD DE DO BACKW2 LDA V+14 3E40 BD FORW LDA V+8 3000 AD DE DO BACKW2 LDA V+14 3E40 BD O FORW LDA V+8 3000 AD DE DO BACKW2 LDA V+14 3E40 BD O FORW LDA V+8 3000 AD DE DO BACKW2 LDA V+14 3E40 BD O FORW LDA V+8 3000 AD DE DO BACKW2 LDA V+14 3E40 BD O FORW LDA V+8 3000 AD DE DO BACKW2 LDA V+14 3E40 BD O FORW LDA V+8 3000 AD DE DO BACKW2 LDA V+14 3E40 BD O FORW LDA V+8 3000 AD DE DO BACKW2 LDA V+14 3E40 BD O DO SBC V 3000 AD DE DO BACKW2 LDA V+14 3E40 BD O DO SBC V 3000 AC DO BACKWD2 3E47 4C 6C 3E JMP FORL 3000 AC DO BACKWD2 LDX #5 3E40 38 SEC 3000 BD ED DO BACKWD2 LDX #5 3E40 3B SEC 3000 ED DO BACKWD2 LDX #5 3E40 3B SEC 3000 ED DO BACKWD2 LDX #5 3E40 BD OFFIL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD OFFIL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD OFFIL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD OFFIL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD DO FORL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD DO FORL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD DO FORL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD DO FORL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD DO FORL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD DO FORL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD DO FORL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD DO FORL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD DO FORL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD DO FORL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD DO FORL LDA V 3000 ED DO BACKWD2 LDX #5 3E40 BD DO FORL LDA
3088 CE 08 D0 FAL2 DEC
308E CE 0A D0 DEC V+10 3530 CA DEX 3091 CE 0C D0 DEC V+12 3631 D0 F1 BNE BAL 3094 CE 0C D0 DEC V+12 3631 D0 F1 BNE BAL 3094 CE 0E D0 DEC V+12 3633 EE FA 07 INC 2042 3097 CA DEX 3098 CE FA 07 INC 2042 3097 CA DEX 3098 D0 F1 BNE FAL2 3630 EE FA 07 INC 2042 3098 D0 F1 BNE FAL2 3630 EE FA 07 INC 2042 3099 AC 8C 3E JMP ENLP 3090 AC 8F 30 JMP J0V1 3636 SEC 3000 AD 0E D0 BACKW2 LDA V+14 3640 ED 00 D0 SBC V 3000 AD 0E D0 BACKW2 LDA V+14 3640 ED 00 D0 SBC V 3000 AD 0E D0 BACKW2 LDA V+14 3640 ED 00 D0 SBC V 3000 AS 38 SEC 3643 C9 14 CMP #20 3000 AD 0E D0 BACKW2 LDA V+14 3640 ED 00 D0 SBC V 3000 AC 9F BB CMP #235 3645 B0 03 BCS FORL 3000 AD 0E D0 BACKW2 LDX #5 3640 B0 0D FORL LDA V 3000 BACKW2 LDX #5 3640 B0 0D FORL LDA V 3000 BACKW2 LDX #5 3640 B0 0D FORL LDA V 3000 BACKW2 LDX #5 3640 B0 0D FORL LDA V 3000 BACKW2 LDX #5 3640 B0 0D FORL LDA V 3000 BACKW2 LDX #5 3640 B0 0D FORL LDA V 3000 BACKW2 LDX #5 3640 B0 0D FORL LDA V 3000 BACKW2 LDX #5 3640 B0 0D FORL LDA V 3000 BACKW2 LDX #5 3640 B0 0D FORL LDA V 3000 BCC BACKWD2 3640 BCC CMP #220 BCC BACKWD2 3640 BCC BACKWD2 3640 BCC BCC BCC MP #220 BCC BCC BCC BCC BCC BCC BCC BCC BCC BC
3091 CE 0C DO DEC V+12 3E31 DD F1 BNE BAL 3094 CE 0C DO DEC V+14 3E33 EF FA 07 INC 2042 3098 DO F1 BNE FAL2 3E39 4C 6C 3E JMP ENLP 309A EE FF 07 INC 2047 3E3C AD 08 DO FORW LDA V+8 309D AC BF 3D JMP JOY1 3E3F 38 309D CE BF 07 INC 2047 3E3C AD 08 DO FORW LDA V+8 309D AC BF 3D JMP JOY1 3E3F 38 309D AC BF 3D JMP JOY1 3E3F 38 309D AC BF 3D JMP JOY1 3E3F 38 309A 38 SEC 3E43 G9 14 CMP #20 30A3 38 SEC 3E43 G9 14 CMP #20 30A4 C9 EB CMP #235 3E45 BD 03 BCS FORL 30A6 90 03 BCC BACKWD2 3E47 4C 6C 3E JMP ENLP 30A8 AC BF 3D JMP JOY1 3E4A AD 00 DO FORL LDA V 30AB AC 0S BACKWD2 LDX #5 3E4D 38 SEC 30AD AE 08 DO BAL2 INC V+8 3E4E C9 DC CMP #220 30B0 EE 0A DO BAL2 INC V+10 3E5O 90 03 BCC FORWD 30B3 EE 0C DO INC V+10 3E5O 90 03 BCC FORWD 30B3 EE 0C DO INC V+14 3E55 AC 05 FORWD LDX #5 30B6 EE 0C DO INC V+14 3E55 AC 05 FORWD LDX #5 30B6 EE 0C DO INC V+14 3E55 AC 05 FORWD LDX #5 30B8 DO F1 BNE BAL2 3E5A EC 02 DD INC V+2 30B0 EE 0A DO BAL2 INC V+14 3E55 AC 05 FORWD LDX #5 30BB DO F1 BNE BAL2 3E5A EC 02 DD INC V+2 30BC EF F0 T INC 2047 3E5D EE 04 DO INC V+2 30BC EF F0 T INC 2047 3E5D EE 04 DO INC V+2 30BC EF F0 T INC 2047 3E5D EE 04 DO INC V+4 30BC AD 01 DC JOY1 LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC JOY1 LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC JOY1 LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC JOY1 LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC JOY1 LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC JOY1 LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC JOY1 LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC JOY1 LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD 01 DC LDA JY1 3E63 CA DC INC V+4 30BC AD
3094 CE 0E DD DEC V+12 353 EE FA 07 INC 2042 3097 CA DEX 3536 EE FA 07 INC 2042 3098 DO F1 BNE FAL2 353 46 66 3E JMP ENLP 309A EE FF 07 INC 2047 3E3C AD 08 DO FORW LDA V+8 309D 4C BF 3D JMP JOY1 3E3F 38 SEC 30A0 AD 0E DD BACKW2 LDA V+14 3E40 ED 00 DD SBC V 30A3 38 SEC 30A4 C9 EB CMP #235 3E45 BD 03 BCS FORL 30A6 90 03 BCC BACKWD2 3E47 4C 6C 3E JMP ENLP 30A8 4C BF 3D JMP JOY1 3E4A AD 00 DD FORL LDA V 30A8 4C BF 3D JMP JOY1 3E4A AD 00 DD FORL LDA V 30A8 4C BF 3D JMP JOY1 3E4A AD 00 DD FORL LDA V 30A8 4C BF 3D SBC V 30A9 EE OA DO INC V+10 3E50 9D 03 BCC FORWD 30B3 EE OA DO INC V+12 3E50 4C 6C 3E JMP ENLP 30B6 EE OA DO INC V+14 3E55 AZ 05 FORWD LDX #5 30BB EE OA DO INC V+14 3E55 AZ 05 FORWD LDX #5 30BB CE FO DO INC V+14 3E55 AZ 05 FORWD LDX #5 30BB CE FO DO INC V+14 3E55 AZ 05 FORWD LDX #5 30BB CE FO DO INC V+14 3E55 AZ 05 FORWD LDX #5 30BB CE FO DO INC V+14 3E55 AZ 05 FORWD LDX #5 30BB CE OF DO INC V+14 3E55 AZ 05 FORWD LDX #5 30BB CE FO DO INC V+14 3E55 AZ 05 FORWD LDX #5 30BB CE FO DO INC V+14 3E55 AZ 05 FORWD LDX #5 30BB CE FO DO INC V+14 3E55 AZ 05 FORWD LDX #5 30BB CE FO DO INC V+14 3E55 AZ 05 FORWD LDX #5 30BB CE FO DO INC V+14 3E55 AZ 05 FORWD LDX #5 30BC EE FF 07 INC 2047 3E5D ED 04 DO INC V+2 30BC EE FF 07 INC 2047 3E5D ED 04 DO INC V+4 30CA DO 35 BNE STICK 3E60 EE FA 07 INC 2042 30CA DO 35 BNE STICK 3E60 EE FA 07 INC 2042 30CA DO 35 BNE STICK 3E60 EE FA 07 INC 2042 30CA AD 01 DC LDA JY1 3COIISION checks 30CA AD 01 DC LDA JY1 3COIISION checks 30CD 29 0F AND #15 30CC AS FB LDA #201 3E71 AD 1E DO LDA V+30 30CA AD 01 DC LDA JY1 3COIISION checks 30DB CE FA 07 INC 2042 30CB AS FB LDA #201 3E71 AD 1E DO LDA V+30 30CB AS FB LDA #201 3E71 AD 1E DO LDA V+30 30CB AS FB LDA #201 3E71 AD 1E DO LDA V+30 30CB AS FB LDA #201 3E71 AD 1E DO LDA V+30 30CB AS GB EE FA 07 INC 2042 30CB AS GB ED LDA #201 3E71 AD 1E DO LDA V+30 30CB AS GB ED LDA #201 3E71 AD 1E DO LDA V+30 30CB AS GB ED LDA #201 3E71 AD 1E DO LDA V+30 30CB AS GB ED LDA #201 3E71 AD 1E DO LDA P+30 30CB AS GB ED LDA #201 3E71 AD 1E DO LDA P+30 30CB AS GB ED LDA
3097 CA DEX 3636 EE FA 07 INC 2042 3098 DO F1 BNE FAL2 3639 4C 6C 3E JMP ENLP 3090 4C BF 30 JMP JOY1 363F 38 SEC 30 AD 08 DO F0RW LDA V+8 3090 4C BF 30 JMP JOY1 363F 38 SEC 30 AD 08 DO F0RW LDA V+8 3090 4C BF 30 JMP JOY1 363F 38 SEC 30 AD 08 DO F0RW LDA V+8 3090 4C BF 30 JMP JOY1 363F 38 SEC 30 AD 08 DO F0RW LDA V+8 3090 4C BF 30 JMP JOY1 363F 38 SEC 30 AD 30 AD 08 DO F0RW LDA V+8 3090 4C BF 30 JMP JOY1 363F 38 SEC 30 AD 30 AD 09 AD 30 AD 30 BC BEC V 30 AD 30 AD 30 BC BACKWD2 3647 4C 6C 3E JMP ENLP 30 AD 30 AD 30 BC BACKWD2 3647 4C 6C 3E JMP ENLP 30 AD 30 BC BACKWD2 30
Signar S
309A CB FF 07
SDDD 4C BF 3D JMP JOY1 3E3F 3B 3B SEC
3DA0 AD OE DO BACKW2
3DA3 38
3DA4 G9 EB
3DA6 90 03
3DAB 4C BF 3D
3DAB A2 D5 BACKWD2 LDX #5 3DAD EE 08 D0 BAL2 INC V+8 3DAD EE 08 D0 BAL2 INC V+10 3E50 90 03 3DB0 EE 0A D0 INC V+110 3E50 90 03 3DB3 EE 0C D0 INC V+12 3E52 4C 6C 3E 3DB9 CA DEX 3E57 EE 00 D0 FAL INC V+2 3DB8 CE EF 0F D0 INC V+14 3E55 A2 05 FORWD LDX #5 3DB9 CA DEX 3E57 EE 00 D0 FAL INC V+2 3DBA D0 F1 BNE BAL2 3E5A EE 02 D0 INC V+2 3DBA D0 F1 BNE BAL2 3E5A EE 02 D0 INC V+4 ; 3DB7 AD 01 DC JOY1 LDA JY1 3E63 CA DEX 3DC2 29 10 AND #16 3E64 D0 F1 BNE BNE STICK 3DC3 A5 FB LDA TESTBT1 3E69 EE FA 07 INC 2042 3DC3 A5 FB LDA TESTBT1 3E69 EE FA 07 3DC3 D0 31 BNE STICK 3E66 EE FA 07 3DC4 D0 35 BNE STICK 3E66 EE FA 07 3DC7 D0 08 BNE LDA TESTBT1 3E69 EE FA 07 3DC8 D0 31 BNE STICK 3E66 EE FA 07 3DC7 D0 08 BNE LDA TESTBT1 3E69 EE FA 07 3DC7 D0 08 BNE LDA TESTBT1 3E69 EE FA 07 3DC8 D0 31 BNE STICK 3E66 EE FA 07 3DC7 D0 08 BNE LDA TESTBT1 3E69 EE FA 07 3DC7 D0 08 BNE LDA TESTBT1 3E69 EE FA 07 3DC7 D0 08 BNE LDA TESTBT1 3E69 EE FA 07 3DC7 D0 08 BNE LDA TESTBT1 3E69 EE FA 07 3DC7 D0 07 LOKIK 3E6E 20 BA 3F JSR TIME 3DD3 A9 C9 LDA #201 3E71 AD 1E D0 LDA V+30 3DD5 D0 08 BNE LOKIK 3E6E 20 BA 3F JSR TIME 3DD3 A9 C9 LDA #201 3E71 AD 1E D0 LDA V+30 3DD5 C0 AE 3E JSR GEN1 3E74 AA TAX 3DD8 C9 OT LOKIK CMP #7 3E77 C9 12 CMP #18 3DDD D0 08 BNE PUNCH 3E79 FO 73 BEQ COLL 3DDF A9 C5 LDA #197 3E78 BA EN TXA 3DDB A9 C5 JSR GEN1 3E7C 29 48 AND #72 3DE7 C9 05 PUNCH CMP #5 3E80 FO 6C BEQ COLL 3DDF A9 C5 JSR GEN1 3E7C 29 48 AND #72 3DE9 D0 08 BNE BLOCK 3E82 BA TXA 3DE9 A9 D1 LDA #205 3E89 BA TXA 3DE9 D0 08 BNE BLOCK DA #205 3E89 BA TXA 3DE9 D0 08 BNE BLOCK DA #205 3E89 BA TXA 3DE9 D0 08 BNE BLOCK DA #205 3E89 BA TXA 3DE9 D0 08 BLOCK LDA #205 3E80 BA TXA 3DE9 D0 08 BLOCK LDA #205 3E89 BA TXA 3DE9 D0 08 BLOCK LDA #205 3E89 BA TXA 3DE9 D0 08 BLOCK LDA #205 3E89 BA TXA 3DE9 D0 08 BLOCK LDA #205 3E89 BA TXA 3DE9 D0 08 BLOCK LDA #205 3E89 BA TXA 3DE9 D0 08 BLOCK LDA #205 3E89 BA TXA 3DE9 D0 08 BLOCK LDA #205 3E89 BA TXA
3DAD EE 08 DU BAL2 INC V+8 3E4E C9 DC CMP #220 3DB0 EE 0A DO INC V+10 3E50 90 03 BCC FORWD 3DB3 EE 0C DO INC V+12 3E52 4C 6C 3E 3DB6 EE 0E DO INC V+14 3E55 A2 05 FORWD LDX #5 3DB8 CA DEX 3E57 EE 00 DO FAL INC V+2 3DBA DO F1 BNE BAL2 3E5A EE 02 DO INC V+2 3DBC EE FF 07 INC 2047 3E5D EE 04 DO INC V+6 3DB7 AD 01 DC JOY1 LDA JY1 3E63 CA DEX 3DC2 29 10 AND #16 3E64 DO F1 BNE FAL 3DC4 DO 35 BNE STICK 3E66 EE FA 07 INC 2042 3DC8 A5 FB LDA TESTBT1 3E69 EE FA 07 INC 2042 3DC8 DO 31 BNE STICK 3E66 EE FA 07 INC 2042 3DC8 DO 31 BNE STICK 3E66 EE FA 07 INC 2042 3DC8 DO 31 BNE STICK 3E66 EE FA 07 INC 2042 3DC9 OF AND #15 3DCF C9 06 CMP #6 3E6C A2 64 ENLP LDX #100 3DD1 DO 08 BNE LOKIK 3E6E 20 BA 3F JSR TIME 3DD3 A9 C9 LDA #201 3E71 AD 1E DO LDA V+30 3DD5 20 AE 3E JSR GEN1 3E74 AA TAX 3DD8 C9 07 LOKIK CMP #7 3E77 C9 12 AND #18 3DDB C9 07 LOKIK CMP #7 3E77 C9 12 AND #18 3DDF A9 C5 LDA #197 3E78 AA EN TXA 3DE7 C9 05 PUNCH CMP #5 3E80 FO 6C BEQ COLL 3DE7 C9 05 PUNCH CMP #5 3E80 FO 6C BEQ COLL 3DE7 C9 05 PUNCH CMP #5 3E80 FO 6C BEQ COLL 3DE8 A9 D1 LDA #209 3E83 S9 18 AND #24 3DED 20 AE 3E JSR GEN1 3E7C 29 48 AND #18 3DE7 C9 05 PUNCH CMP #5 3E80 FO 6C BEQ COLL 3DE7 A9 C5 LDA #209 3E83 S9 18 AND #24 3DE8 A9 D1 LDA #209 3E83 S9 18 AND #24 3DE8 A9 D1 LDA #209 3E88 S9 18 CMP #72 3DE7 C9 05 PUNCH CMP #5 3E80 FO 6C BEQ COLL 3DE7 A9 CD BLOCK LDA #209 3E83 S9 18 AND #24 3DE8 A9 CD BLOCK LDA #209 3E83 S9 18 AND #24 3DE7 20 AE 3E JSR GEN1 3E8C C9 42 CMP #24 3DE8 A9 CD BLOCK LDA #209 3E88 C9 42 CMP #24 3DE9 A9 CD BLOCK LDA #205 3E89 BA TXA 3DE8 A9 CD BLOCK LDA #205 3E88 BA TXA 3DE8 A9 CD BLOCK LDA #205 3E89 BA TXA 3DE8 A9 CD BLOCK LDA #205 3E88 BA TXA 3DE8 A9 CD BLOCK LDA #205 3E88 BA TXA 3DE8 A9 CD BLOCK LDA #205 3E88 BA TXA 3DE8 A9 CD BLOCK LDA #205 3E88 BA TXA 3DE8 A9 CD BLOCK LDA #205 3E89 BA TXA 3DE8 A9 CD BLOCK LDA #205 3E86 BEQ COLL
30B8 EE 06 D0 INC V+10 3E50 90 03 BGC FORWD 30B8 EE 06 D0 INC V+12 3E52 4C 6C 3E JMP ENLP 30B8 EE 0C D0 INC V+14 3E55 A2 05 FORWD LDX #5 30B8 D0 F1 BNE BAL2 3E5A EE 02 D0 INC V+2 30B8 D0 F1 BNE BAL2 3E5A EE 02 D0 INC V+4 30B8 D0 F1 BNE BAL2 3E5A EE 02 D0 INC V+4 310BC EE FF 07 INC 2047 3E5D EE 04 D0 INC V+4 310BC EE FF 07 INC 2047 3E5D EE 04 D0 INC V+6 310BC EE FF 07 INC 2047 3E5D EE 04 D0 INC V+6 310BC EE 06 D0 INC V+4 310BC EE 06 D0 INC V+6 310BC EE 06 D0 INC V+10 310BC EE
SIDES EE OF DO
Subsect Subs
Subar Suba
3BBC EE FF 07 INC 2047 3E5D EE 04 D0 INC V+4 ;
3DBF AD 01 DC JOY1 LDA JY1 3E60 EE 06 D0 INC V+6 3DBF AD 01 DC JOY1 LDA JY1 3E63 CA DEX 3DC2 29 10 AND #16 3E64 D0 F1 BNE FAL 3DC4 D0 35 BNE STICK 3E66 EE FA 07 INC 2042 3DC6 A5 FB LDA TESTBT1 3E69 EE FA 07 INC 2042 3DC8 AD 031 BNE STICK ; 3DCA AD 01 DC LDA JY1 ; collision checks 3DCD 29 0F AND #15 ; 3DCF C9 06 CMP #6 3E6C A2 64 ENLP LDX #100 3DD1 D0 08 BNE LOKIK 3E6E 20 BA 3F JSR TIME 3DD3 A9 C9 LDA #201 3E71 AD 1E D0 LDA V+30 3DD5 20 AE 3E JSR GEN1 3E74 AA TAX 3DD8 4C 6C 3E JMP ENLP 3E75 29 12 AND #18 3DDD C9 07 LOKIK CMP #7 3E77 C9 12 CMP #18 3DDD D0 08 BNE PUNCH 3E79 FO 73 BEQ COLL 3DDF A9 C5 LDA #197 3E7B BA EN TXA 3DE1 20 AE 3E JSR GEN1 3E7C 29 48 AND #72 3DE7 C9 05 PUNCH CMP #5 3E8C C9 48 CMP #72 3DE7 C9 05 PUNCH CMP #5 3E8D FO 6C BEQ COLL 3DE9 D0 08 BNE BLOCK 3E82 BA TXA 3DE8 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 D0 08 BNE BLOCK 3E82 BA TXA 3DE9 D0 BLOCK LDA #209 3E83 29 18 AND #24 3DE9 D0 AE 3E JSR GEN1 3E86 C9 18 CMP #24 3DE9 D0 AE 3E JSR GEN1 3E86 C9 18 CMP #24 3DE9 D0 AE 3E JSR GEN1 3E86 C9 42 CMP #66 3DE8 D0 COLL 3DE9 D0 BLOCK LDA #205 3E88 BA TXA 3DE9 D0 D0 BLOCK LDA #205 3E88 BA TXA 3DE9 D0 D0 BLOCK LDA #205 3E88 BA TXA 3DE9 D0
SDBF AD 01 DC JOY1 LDA JY1 3E63 CA DEX
SDC2
3DC4 D0 35 BNE STICK 3E66 EE FA 07 INC 2042 3DC8 A5 FB LDA TESTBT1 3E69 EE FA 07 INC 2042 3DC8 D0 31 BNE STICK ; 3DCA AD 01 DC LDA JY1 ; 3DCD 29 0F AND #15 ; 3DCF C9 06 CMP #6 3E6C A2 64 ENLP LDX #100 3DD1 D0 08 BNE LOKIK 3E6E 20 BA 3F JSR TIME 3DD3 A9 C9 LDA #201 3E71 AD 1E D0 LDA V+30 3DD5 20 AE 3E JSR GEN1 3E74 AA TAX 3DD8 4C 6C 3E JMP ENLP 3E75 29 12 AND #18 3DDB C9 07 LOKIK CMP #7 3E77 C9 12 CMP #18 3DDD D0 08 BNE PUNCH 3E79 FO 73 BEQ COLL 3DDF A9 C5 LDA #197 3E78 BA EN TXA 3DE1 20 AE 3E JSR GEN1 3E7C 29 48 AND #72 3DE7 C9 05 PUNCH CMP #5 3E80 FO 6C BEQ COLL 3DE7 C9 05 PUNCH CMP #5 3E80 FO 6C BEQ COLL 3DE9 D0 08 BNE BLOCK 3E82 BA TXA 3DE8 A9 D1 LDA #209 3E85 C9 18 CMP #24 3DED 20 AE 3E JSR GEN1 3E85 C9 18 CMP #24 3DED 20 AE 3E JSR GEN1 3E85 C9 18 CMP #24 3DED 20 AE 3E JSR GEN1 3E85 C9 18 CMP #24 3DED 20 AE 3E JSR GEN1 3E85 C9 18 CMP #24 3DED 20 AE 3E JSR GEN1 3E85 C9 18 CMP #24 3DED 20 AE 3E JSR GEN1 3E85 C9 18 CMP #24 3DED 20 AE 3E JSR GEN1 3E85 C9 18 CMP #24 3DED 20 AE 3E JSR GEN1 3E85 C9 18 CMP #24 3DED 20 AE 3E JSR GEN1 3E85 C9 18 CMP #24 3DE9 A9 CD BLOCK LDA #205 3E88 BA TXA 3DE8 A9 CD BLOCK LDA #205 3E88 BA TXA 3DE8 A9 CD BLOCK LDA #205 3E88 BA COLL 3DE8 A9 CD BLOCK LDA #205 3E88 BA TXA 3DE8 A9 CD BLOCK LDA #205 3E86 C9 42 CMP #66 3DE8 A9 CD BLOCK LDA #205 3E86 C9 42 CMP #66
3DC6 A5 FB
3DC8 D0 31
3DCA AD 01 DC LDA JY1 ; collision checks 3DCD 29 0F AND #15 ; 3DCF C9 06 CMP #6 3E6C A2 64 ENLP LDX #100 3DD1 D0 08 BNE LOKIK 3E6E 20 BA 3F JSR TIME 3DD3 A9 C9 LDA #201 3E71 AD 1E D0 LDA V+30 3DD5 20 AE 3E JSR GEN1 3E74 AA TAX 3DD8 4C 6C 3E JMP ENLP 3E75 29 12 AND #18 3DDB C9 07 LOKIK CMP #7 3E77 C9 12 CMP #18 3DDD D0 08 BNE PUNCH 3E79 F0 73 BEQ COLL 3DDF A9 C5 LDA #197 3E7B 8A EN TXA 3DE1 20 AE 3E JSR GEN1 3E7C 29 48 AND #72 3DE7 C9 05 PUNCH CMP #5 3E7E C9 48 CMP #72 3DE7 C9 05 PUNCH CMP #5 3E80 F0 6C BEQ COLL 3DE9 D0 08 BNE BLDCK 3E82 8A TXA 3DE9 D0 08 BNE BLDCK 3E82 BA TXA 3DE9 D0 08 BNE BLDCK 3E85 C9 18 CMP #24 3DE9 D0 08 BNE BLDCK 3E87 F0 65 BEQ COLL 3DE9 D0 08 BNE BLDCK 3E87 F0 65 BEQ COLL 3DE9 D0 08 BNE BLDCK 3E87 F0 65 BEQ COLL 3DE9 D0 08 BNE BLDCK 3E87 F0 65 BEQ COLL 3DE9 D0 08 BNE BLDCK DA #209 3E83 29 18 AND #24 3DE9 D0 08 BLDCK LDA #209 3E83 29 18 AND #24 3DE9 D0 08 BLDCK LDA #209 3E83 C9 42 AND #66 3DE8 D0 COLL
3DCF C9 06 CMP #6 3E6C A2 64 ENLP LDX #100 3DD1 D0 08 BNE LOKIK 3E6E 20 BA 3F JSR TIME 3DD3 A9 C9 LDA #201 3E71 AD 1E D0 LDA V+30 3DD5 20 AE 3E JSR GEN1 3E74 AA TAX 3DD8 4C 6C 3E JMP ENLP 3E75 29 12 AND #18 3DD8 C9 07 LOKIK CMP #7 3E77 C9 12 CMP #18 3DDD D0 08 BNE PUNCH 3E79 F0 73 BEQ COLL 3DDF A9 C5 LDA #197 3E7B 8A EN TXA 3DE1 20 AE 3E JSR GEN1 3E7C 29 48 AND #72 3DE2 C9 05 PUNCH CMP #5 3E80 F0 6C BEQ COLL 3DE9 D0 08 BNE BLOCK 3E82 8A TXA 3DE9 D0 08 BNE BLOCK 3E88 8E TXA 3DE9 B0 09 D0 08 BNE BLOCK 3E88 8E TXA 3DE9 B0 09 D0 08 BNE BLOCK 3E88 8E TXA
3DD1 D0 08 BNE LOKIK 3E6E 20 BA 3F JSR TIME 3DD3 A9 C9 LDA #201 3E71 AD 1E D0 LDA V+30 3DD5 20 AE 3E JSR GEN1 3E74 AA TAX 3DD8 C9 07 LOKIK CMP #7 3E75 29 12 AND #18 3DDD D0 08 BNE PUNCH 3E79 F0 73 BEQ COLL 3DDF A9 C5 LDA #197 3E7B 8A EN TXA 3DE1 20 AE 3E JSR GEN1 3E7E C9 48 AND #72 3DE4 4C 6C 3E JMP ENLP 3E7E C9 48 CMP #72 3DE7 C9 05 PUNCH CMP #5 3E7E C9 48 CMP #72 3DE7 C9 05 PUNCH CMP #5 3E80 F0 6C BEQ COLL 3DE9 D0 08 BNE BLOCK 3E82 8A TXA 3DE9 D0 08 BLOCK DD 3E83 29 18 AND #24 3DE9 D0 08 BLOCK DD 3E83 29 18 CMP #24 3DE9 D0 08 BLOCK DD 3E83 29 18 CMP #24 3DE9 D0 08 BLOCK DD 3E83 29 18 CMP #24 3DE9 D0 08 BLOCK DD 3E83 29 18 CMP #24 3DE9 D0 08 BLOCK DD 3E83 29 18 CMP #24 3DE9 D0 08 BLOCK DD 3E83 29 18 CMP #24 3DE9 D0 4C 6C 3E JMP ENLP 3E87 F0 65 BEQ COLL 3DE9 A9 CD 3E83 BEQ COLL 3DE9 D0 4C 6C 3E JMP ENLP 3E87 F0 65 BEQ COLL 3DE9 A9 CD 3E83 BEQ COLL 3DE9 A9 CD 3E
3DD3 A9 C9 LDA #201 3E71 AD 1E DO LDA V+30 3DD5 20 AE 3E JSR GEN1 3E74 AA TAX 3DD8 4C 6C 3E JMP ENLP 3E75 29 12 AND #18 3DDD 00 08 BNE PUNCH 3E79 F0 73 BEQ COLL 3DDF A9 C5 LDA #197 3E78 8A EN TXA 3DE1 20 AE 3E JSR GEN1 3E7C 29 48 AND #72 3DE1 20 AE 3E JSR GEN1 3E7C 29 48 AND #72 3DE4 4C 6C 3E JMP ENLP 3E7E C9 48 CMP #72 3DE7 C9 05 PUNCH CMP #5 3E80 F0 6C BEQ COLL 3DE9 D0 08 BNE BLOCK 3E82 8A TXA 3DE9 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 A9 D1 LDA #209 3E83 29 18 AND #24 3DE9 A9 D1 LDA #209 3E83 C9 42 AND #66 3DE8 A9 D1 SERC C9 42 CMP #66
3DD5 20 AE 3E
3DD8 4C 6C 3E
3DDB C9 07 LOKIK CMP #7 3E77 C9 12 CMP #18 3DDD DO 08 BNE PUNCH 3E79 FO 73 BEQ COLL 3DDF A9 C5 LDA #197 3E7B 8A EN TXA 3DE1 20 AE 3E JSR GEN1 3E7C 29 48 AND #72 3DE4 4C 6C 3E JMP ENLP 3E7E C9 48 CMP #72 3DE7 C9 05 PUNCH CMP #5 3E80 FO 6C BEQ COLL 3DE9 D0 08 BNB BLOCK 3E82 8A TXA 3DEB A9 D1 LDA #209 3E83 29 18 AND #24 3DE0 20 AE 3E JSR GEN1 3E85 C9 18
3DDD DO 08
3DDF A9 C5
3DE1 20 AE 3E
30E4 4C 6C 3E
3DE7 C9 05
30EB A9 D1 LDA #209 3E83 29 18 AND #24 30ED 20 AE 3E JSR GEN1 3E85 C9 18 CMP #24 30F0 4C 6C 3E JMP ENLP 3E87 F0 65 BEQ COLL 30F3 A9 CD BLOCK LDA #205 3E83 8A TXA 30F5 20 AE 3E JSR GEN1 3E8A 29 42 AND #66 30F8 4C 6C 3E JMP ENLP 3E8C C9 42 CMP #66 30F8 4C 6C 3E JMP ENLP 3E8C C9 42 CMP #66
3DED 20 AE 3E
3DE0 20 AE 3E
3DF3 49 CD BLOCK LDA #205 3E89 8A TXA 3DF5 20 AE 3E JSR GEN1 3E8A 29 42 AND #66 3DF8 4C 6C 3E JMP ENLP 3E8C C9 42 CMP #66 3DF8 4C 6C 3E JMP ENLP 3E8C F0 5E BEO COLL
3DF5 20 AE 3E
3DF8 4C 6C 3E JMP ENLP 3E8C C9 42 CMP #66
SERE EN SE REN COLL
, 000 10 30 0000
move white 3E90 A5 FB ENO LDA TESTBT1
; 3E92 A8 TAY
3DFB AD 01 DC STICK LDA JY1 3E93 A9 CO LDA #192
3DFE 29 10 AND #16 3E95 20 AE 3E JSR GEN1
3E00 F0 04 BEQ F0B1 3E98 98 TYA 3E02 A9 00 LDA #0 3E99 85 FB STA TESTBT1
3E02 A9 00 LDA #0 3E99 85 FB STA TESTBT1 3E04 85 FB STA TESTBT1 3E9B A5 FC LDA TESTBT2
OFFICE AD OFFICE THE TOTAL TO STORE THE TOTAL TO STORE AD OFFICE TO STORE THE TOTAL
3E06 AD 01 DC F0B1 LDA JY1 3E9D A8 TAY 3E09 29 0F AND #15 3E9E A9 D9 LDA #217
3E09 29 0F AND #15 3E9E A9 D9 LDA #217 3E08 C9 0F CMP #15 3EA0 20 CE 3E JSR GEN2
3E09 29 0F AND #15 3E9E A9 D9 LDA #217 3E0B C9 0F CMP #15 3EA0 20 CE 3E JSR GEN2 3E0D D0 03 BNE F0B2 3EA3 98 TYA
3E09 29 0F AND #15 3E9E A9 D9 LDA #217 3E0B C9 0F CMP #15 3EA0 20 CE 3E JSR GEN2 3E0D D0 03 BNE F0B2 3EA3 98 TYA 3E0F 4C 6C 3E JMP ENLP 3EA4 85 FC STA TESTBT2
3E09 29 0F AND #15 3E9E A9 D9 LDA #217 3E0B C9 0F CMP #15 3E9E A9 D9 LDA #217 3E0B C9 0F CMP #15 3EA0 20 CE 3E JSR GEN2 3E0D D0 03 BNE F0B2 3EA3 98 TVA 3E0F 4C 6C 3E JMP ENLP 3EA4 85 FC STA TESTBT2 3E12 38 F0B2 SEC 3EA6 A2 32 LDX #50
3E09 29 0F AND #15 3E9B A9 D9 LDA #217 3E08 C9 0F CMP #15 3E9B A9 D9 LDA #217 3E0B C9 0F CMP #15 3EA0 20 CE 3E JSR GEN2 3E0D D0 03 BNE F0B2 3EA3 98 TYA 3E0F 4C 6C 3E JMP ENLP 3EA4 85 FC STA TESTBT2 3E12 38 F0B2 SEC 3EA6 A2 32 LDX #50 3E13 C9 08 CMP #8 3EA8 20 BA 3F JSR TIME 3E15 90 25 BCC F0RW 3EA8 4C 18 3D JMP J072

; ;animation subroutines			3F40 3F42	A9 03 CD 3F 03		LDA CMP	#3 831
•			3F45				BLWNS
3EAE A2 00 GEN1	LDX STA	#0	3F47	4C B4 30	JDF BLWNS	JMP	DEFAULT
3EB0 9D F8 07 GN1	STA	2040,X	3F4A	A9 E8	BLWNS	LDA	#232
3EB3 18	CLC		3F4C	CD 3E 03	}	CMP	830
3EB4 69 01	ADC	#1	3F4F	D0 F6		BNE	JDF
3EB6 E8	INX		3F51	4C E5 3F AD FC 07	:	JIVIP	BLACKWINS
3EB7 E0 04	CPX	#4	3F54	AD FC 07	SC2	LDA	2044
3EB9 D0 F5	BNE	GN1	3F57	C9 D9		CMP	#217
3EBB A9 01 3EBD 85 FB	LDA STA	#1 Testbt1	3F59 3F5B	D0 0D	,	BNE LDA	SC3 2040
3EBF AD F8 07	LDA	2040	3F5E	AD F8 07 C9 C0		CMP	#192
3EC2 C9 C0	CMP	#192	3F60	DO 06		BNE	SC3
3EC4 F0 07	BEQ	NOSND	3F62	4C 90 3F	•	JMP	ENO
3EC6 C9 D5	CMP	#213	3F65	4C 90 3E	SC4	JMP	ENO
3EC8 F0 03	BEQ	NOSND	3F68	AD FC 07	SC3	LDA	2044
3ECA 20 6A 40	JSR	SWISH	3F6B	C9 D9		CMP	#217
3ECD 60 NOSND	RTS		3F6D	D0 F6		BNE	SC4
;	. 5.4		3F6F	AD F8 07 C9 C0 F0 EF 20 44 40	'	LDA	2040
3ECE A2 00 GEN2 3ED0 9D FC 07 GN2	LDX	#0	3F72 3F74	C9 C0		CMP	#192 SC4
3ED0 9D FC 07 GN2 3ED3 18	STA CLC	2044,X	3F76	20 44 40	١	BEQ JSR	WACK
3ED4 69 01	ADC	#1	3F79	A2 0A	,	LDX	#10
3ED6 E8	INX	π ι	3F7B	FF OR DO	RALC2	INC	V+8
3ED7 E0 04	CPX	#4	3F7E	FE OA DO) BALC2	INC	V+10
3ED9 D0 F5	BNE	GN2	3F81	EE OA DO EE OC DO EE OE DO	j .	INC	V+12
3EDB A9 01	LDA	#1	3F84	EE OE DO	j .	INC	V+14
3EDD 85 FC	STA	TESTBT2	3F87	CA DO F1		DEX	
3EDF AD FC 07 3EE2 C9 EE	LDA	2044	3F88	D0 F1		BNE	BALC2
	CMP	#238	3F8A	a9 ee		LDA	#238
3EE4 F0 E7	BEQ	NOSND	3F8C	20 CE 3E		JSR	GEN2
3EE6 C9 D9	CMP	#217	3F8F	A9 C0		LDA	#192
3EE8 F0 E3 3EEA 20 6A 40	BEQ JSR	NOSND SWISH	3F91 3F94	20 AE 3E 20 FC 3F		JSR JSR	GEN1 WHITESCORE
3EED 60	RTS	OVVIOR	3F97	A2 FF		LDX	#255
	nio		3F99	20 BA 3F	:	JSR	TIME
;collision routine			3F9C	A2 FF		LDX	#255
•			3F9E	20 BA 3F	:	JSR	TIME
3EEE AD F8 07 COLL 3EF1 C9 CD 3EF3 F0 70 3EF5 AD FC 07	LDA	2040	3FA1	A2 FF		LDX	#255
3EF1 C9 CD	CMP	#205	3FA3	20 BA 3F	:	JSR	TIME
3EF3 F0 70	BEQ	SC4	3FA6	A9 03		LDA	#3
3EF5 AD FC 07	LDA	2044	3FA8	CD 3D 03	3	CMP	829
SEFO US EQ	CIVIP	#230 SC4	3FAB	F0 03	JDF2	BEQ	WHTWNS
3EFA FO 69 3EFC AD F8 07	BEQ LDA	2040	3FAD 3FB0	40 B4 30 A9 E8	UDF2 WHTWNS	JMP LDA	DEFAULT #232
3EFF C9 C0	CMP	#192	3FB2	CD 3C 03	WILLIAMIS	CMP	#232 828
3F01 D0 51	BNE	SC2	3FB5	D0 F6	•	BNE	JDF2
3F03 AD FC 07	LDA	2044	3FB7	4C C3 3F	:	JMP	WHITEWINS
3F06 C9 D9	CMP	#217					
3F08 F0 4A	BEQ	SC2	;time (delay subro	utine		
3F0A 20 44 40	JSR	WACK					
3F0D A2 0A	LDX	#10	3FBA	AO FF	TIME	LDY	#255
3F0F CE 00 D0 BALC	DEC	V V+2	3FBC	88 DO ED	LPY	DEY	LDV
3F12 CE 02 D0 3F15 CE 04 D0	DEC	V+2 V+4	3FBD 3FBF	DO FD Ca		BNE Dex	LPY
3F18 CE 06 D0	DEC	V+4 V+6	3FC0	DO F8		BNE	TIME
3F1B CA	DEX	V 1 0	3FC2	60		RTS	1 HAIT
3F1C D0 F1	BNE	BALC	:	•••			
3F1E EE FA 07	INC -	2042	;game	end routine	s		
3F21 EE FA 07	INC	2042	;				
3F24 A9 D5	LDA	#213	3FC3	A2 05	WHITEWINS	LDX	#5
3F26 20 AE 3E	JSR	GEN1	3FC5	AO OB		LDY	#11
3F29 A9 D9	LDA	#217	3FC7 3FC8 3FCB 3FCD	18		CLC	n
3F2B 20 CE 3E 3F2E 20 10 40	JSR	GEN2	31-08	20 F0 FF	•	JSR	PLOT
3F31 A2 FF	JSR LDX	BLACKSCORE #255	SECD	AO OO B9 9F 45	Meec	LDY LDA	#0 Table2.y
3F33 20 BA 3F	JSR	TIME	3FD0	C9 00	, 14100G	CMP	#0
3F36 A2 FF	LDX	#255	3FD2	F0 06		BEQ	WAITS
3F38 20 BA 3F	JSR	TIME	3FD4	20 D2 FF	:	JSR	CHROUT
3F3B A2 FF	LDX	#255	3FD7	C8		INY	
3F3D 20 BA 3F	JSR	TIME	3FD8	D0 F3		BNE	MSSG

3FDA A9 00 WAITS	LDA	#0	4074	A9 44	LDA	#68
3FDC 85 C6	STA	198	4076	A9 44 8D 05 D4	STA	S+5
3FDE A5 C6 WT	STA LDA	100	4070	M3 UU	LDA	#0
3FEO FO FC	BEQ	WT BEGINING #5 #11 PLOT #0 TABLE3,Y #0 WAITS CHROUT BMSG	407B	8D 06 D4	STA	S+6
3FE2 4C 82 3C	JMP	BEGINING	407E	A9 07	LDA	#7
		#5	4080	8D 18 D4	STA	S+24
3FE7 A0 0B	LDY	#11	4083	A9 81	LDA	#129
3FE5 A2 05 BLACKWINS 3FE7 A0 0B 3FE8 18 3FEA 20 F0 FF 3FED A0 00 3FFF B9 AC 45 BMSG 3FF2 C9 00 3FF4 F0 E4 3FF6 20 D2 FF 3FF9 C8 3FFA D0 F3	CLC		4085	8D 04 D4	STA	S+4
3FEA 20 F0 FF	JSR	PIOT	4088	A2 0A	LDX	#10
3FED A0 00	inv	#0	4084	20 BA 3F	JSR	TIME
3FEF B9 AC 45 BMSG	ΪDΔ	TARI F3 V	4080	A9 80	LDA	#128
3FF2 C9 00	CMP	#N	408F	8D 04 D4	STA	S+4
3FF4 F0 E4	BEO	WAITS	4092	60	RTS	• • • • • • • • • • • • • • • • • • • •
3FF6 20 D2 FF	JSR	CHROLIT	4093	Ã2 00 SID	LDX	#0
3FF9 C8	INV	BMSG	4095	40.00	LDA	#0
3FFA DO F3	RNF	RMSG	4097	9D 00 D4 CLRSD E8	STA	S,X
		oou	409A	E8	INX	-
scoring subroutines			409B	EO 18	CPX	#24
. •			409D	D0 F8	BNE	CLRSD
3FFC 18 WHITESCOR 3FFD AD 3C 03 4000 69 64 4002 8D 3C 03 4005 AD 3D 03 4008 69 00 4000 8D 3D 03 4000 4C 21 40	CLC	828 #100 828 829 #0 829 SCORPLOT	409F	60	RTS	02.102
3FFD AD 3C 03	IDA	828				
4000 69 64	ADC	#100	nrint l	background		
4002 8D 3C 03	STA	828	ipinit .	odonground		
4005 AD 3D 03	ΙDΔ	829	ANAN	A9 00 SCREEN	I DA	#0
4008 69 00	ADC	#0	40A2	8D 21 DO	STA	53281
400A 8D 3D 03	STA	829	40A5	A9 OF	I DA	#15
400D 4C 21 40	JMP	SCORPLOT	40A7	8D 20 D0	STA	53280
4010 18 BLACKSCOR	CLC	000111 201	40AA	AO OO	LDY	#0
4011 AD 3E 03	ΙDΔ	830	40AC	R9 DC 40 T1	ĪDĀ	TABLE,Y
4010 18 BLACKSCOR 4011 AD 3E 03 4014 69 64	ADC	#100	40AF	20 D2 FF	JSR	CHROUT
4016 8D 3E 03	STA	830	40B2	C8	INY	000.
4019 AD 3F 03	LDA	831	40B3	D0 F7	RNF	T1
401C 69 00	ADC	#0	40B5	B9 DC 41 T2	LDA	TABLE+256,Y
401E 8D 3F 03	STA	831	40B8	20 D2 FF	JSR	CHROUT
4021 A2 08 SCORPLOT	צחו	#8	40BB	C8	INY	0001
4011 AD 3E 03 4014 69 64 4016 8D 3E 03 4019 AD 3F 03 4010 69 00 401E 8D 3F 03 4021 A2 08 SCORPLOT 4023 A0 22 4025 18 4026 20 F0 FF 4029 AD 3D 03 402C AE 3C 03 402F 20 CD BD 4032 A2 0D 4034 A0 22 4036 18 4037 20 F0 FF 4039 AD 3F 03 4040 3C D BD 40403 AD 3F 03 4040 20 CD BD 40403 60	IN	828 829 #0 829 SCORPLOT 830 #100 830 #100 831 #0 831 #0 831 #8 #34 PLOT 829 828 LINPRT #13 #34	40BC	D0 F7	BNF	T2
4025 18	ci c	"07	40BF	B9 DC 42 T3	LDA	TABLE+512,Y
4026 20 F0 FF	JSB	PLOT	40C1	20 D2 FF	JSR	CHROUT
4029 AD 3D 03	I DA	829	40C4	CR	INY	0111001
402C AE 3C 03	IDX	828	4005	00 F7	RNF	T3
402F 20 CD BD	JSR	LINPRT	40C7	B9 DC 43 T4	IDA	TABLE + 768,Y
4032 A2 OD	INX	#13	40CA	20 D2 FF	JSR	CHROUT
4034 AO 22	IDV	#34	40CD	C8	INY	0.11100.
4036 18	CLC	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	40CF	D0 F7	BNE	T4
4037 20 F0 FF	JSR	PLOT	40D0	B9 DC 44 T5	LDA	TABLE + 1024,Y
403A AD 3F 03	I DA	831	40D3	FO 06	BEQ	QUIT
403D AE 3E 03	IDX	830	40D5	20 D2 FF	JSR	CHROUT
4040 20 CD BD	JSR	LINPRT	40D8	C8	INY	
4043 60	RTS		40D9	DO F5	BNE	T5
:			40DB	60 QUIT	RTS	
sound subroutines			40DC	TABLE	=	*
•			40DC	D0 F5 60 QUIT TABLE 93 20 12 20 20 20	.ASC	"{CLR} {RVS}{WH T}{22 SPACE}" "{16 SPACE}{OFF
4044 A9 0F WACK 4046 8D 18 D4 4049 8D 0C D4 404C A9 07 404E 8D 0D D4 4051 A9 1C 4053 8D 08 D4 4056 A9 00 4058 A9 00 4058 A9 81 4056 A9 81	LDA	#15				T}{22 SPACE{"
4046 8D 18 D4	STA	S+24	40F6	20 20 20	.ASC	"{16 SPACE}{OFF
4049 8D 0C D4	STA:	S+12				}`"
404C A9 07	LDA	#7	4108	12 20 92	.ASC	"{RVS} {OFF}{
404E 8D 0D D4	STA	S+13				9`SPACE}{RVS}[<4
4051 A9 1C	LDA	#28 S+8 #0 S+7				" "{RVS} {OFF}{ 9 SPACE}{RVS}[<4 >] {11 SPACE}{OFF
4053 8D 08 D4	STA	S+8				}""
4056 A9 00	LDA	#0	4123	20 20 20	.ASC	"{9 SPACE}{RVS}
4058 8D 07 D4	STA	S+7				{WHT} {OFF}{7 SP
405B A9 81	LDA	#129				ACE}{RVS} "
4000 00 08 04	SIA	3±11	4139	20 92 20	.ASC	" {OFF} {9 SPACE}
4060 A2 0A	LDX	#10				{RVS}[<4>]{11 SP
4062 20 BA 3F	JSR	TIME	4	20 20 20		AUL}{OFF} "
4065 A9 80	LDA	#128	4153	20 20 20	.ASC	"{9 SPACE}{HVS}
4067 8D 0B D4	STA	S+11				{UFF} {UFF}{7 SP
4067 8D 0B D4 406A A9 E1 SWISH 406C 8D 00 D4	LDA	#225	4400	00 00 00	100	#UE}{KVS} "
406C 8D 00 D4	STA	S	4169	20 92 20	.ASC	{UFF}{9 SPACE}
406F A9 1E	LDA	#30				K > (QEE) 0 (0 CD4
4071 8D 01 D4	STA	S+1				9 SPACE (RVS) (WHT) (OFF) { 7 SP ACE (RVS) (OFF) { 9 SPACE (RVS) (4-4) { 11 SP ACE (PF) (7 SP ACE (RVS) (OFF) (OFF) (7 SP ACE (RVS) (9 SPACE (4-3) (RVS) (9 SPACE (4-3) (RVS) (9 SPACE (4-3) (RVS) (4-3) (
						UE)
						,

4183	20 20 20	.ASC	"{8 SPACE}{RVS} {WHT} {OFF}{7 SP ACE}{RVS} "	43C3	20 92 9E	.ASC	" {OFF}{YEL} <u>N</u> {RE D}Q{RVS}[<8>]£{1
4198	20 92 20	.ASC	" {OFF} {23 SPACE	43DD	20 20 20	.ASC	7 SPACE}" "{7 SPACE}[<*>]{
41B1	20 20 20	.ASC	"{6 SPACE}{SHIF T-SPACE}{RVS}{W HT} {OFF}{7 SPAC				OFF}{RED}Q{YEL} M{RVS}{WHT} {O FF}{7 SPACE}{RV S} "
41C5	20 92 20	.ASC	E}{RVS} "` " {OFF}{30 SPACE	43F7	20 92 1C	.ASC	" (OFF) {RED} <u>Q</u> {R VS}[<8> <u>}£</u> (19 SPA
41E5	12 05 20	.ASC	"{RVS}{WHT} {OF F} {RVS}WHITE{O	4411	20 20 20	.ASC	CE}" "{8 SPACE} <*> OFF}{RED}Q{RVS}
41F4	20 92 20	.ASC	ff}`{rv\$} " " {off}{24 space	4400	00 00 40		{WHT} {OFF} {7 SP ACE} {RVS} "
420E	20 20 20	.ASC	{6 SPACE}{RVS } {OFF} {RVS}SC	4429 4442	20 92 12 20 20 20	.ASC	" {OFF}{RVS}{<8 >12 {20 SPACE}" "{8 SPACE}{**>]{
4222	20 92 20	.ASC	ORE{OFF} {RVS} " " {OFF}{25 SPACE }"				OFF}{RVS}{WHT } {OFF}{7 SPACE} {RVS} "
423D	20 20 20	.ASC	"{6 SPACE}{RVS	4459	20 9B 20	.ASC	"[<8>]{23 SPACE}
424D	20 20 92	.ASC	}`{0FF}{7`\$PACE} {RVS}" "{2 SPACE}{0FF	4472	20 20 20	.ASC	"{7 SPACE}{WHT } {OFF}{7 SPACE}
4267	20 D1 20	.ASC	} [<3>] "QQQQ{RVS}{WH	4485	20 9B 20	.ASC	{RVS} **` " [<8>]{23 SPACE}
			T) {OFF} {2 SPACE }000{2 SPACE} {R VS} "	449E	20 20 20	.ASC	"{7 SPACE}{WHT } {OFF}{7 SPACE}
4296	20 D1 20	.ASC	"QQQ {RVS} {WHT } {OFF} {7 SPACE} {RVS} "	44B1	20 98 20	.ASC	{RVS} **` " [<5>]{22 SPACE}
42AA 42C3	20 92 20 20 D1 20	.ASC	" {0FF} [<3>] "QQQQ{RVS}{WH T} {0FF} {RVS}[<	44C9	20 20 20	.ASC	"{8 SPACE} {WHT } {OFF} {7 SPACE} {RVS} "
42DC	20 92 96	.ASC	8> BLACK(OFF) (R VS) {WHT) " " {OFF} <3> Q {RV	44DD	20 92 20	.ASC	" {OFF} [<4>][<*>] {RVS} {OFF} <u>\$\frac{2}{5}\$</u> {1 7 SPACE}"
			S}[<2>]£ {0FF}£{ YEL}[<14 Y>]"	44F7	20 20 20	.ASC	"{5
42F6	B7 B7 B7	.ASC	\f\ ^\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	450F	20 92 20	.ASC	}{ŴHT} {OFF}{ 7 SPACE}{RVS} " " {OFF} [<4>] {RV S}{5 SPACE}RING SIDE{2 SPACE}KA
4316	20 92 20	.ASC	VS) {OFF} " " {OFF} {YEL}NK 3>10{RVS}K2>1 {0	452A	20 20 20	.ASC	RATE" "{5 SPACE}{OFF}{
4332	20 D1 20	.ASC	33 <u>0</u> (RVS)(23) {0 " <u>0</u> <u>0</u> <u>0</u> (23)(RVS } {0FF}(33) <u>0</u> (YE				2 SPACE} {RVS} { WHT} {OFF} {7 SP ACE} {RVS} "
			Ĺ}MI<3>]Q{RV\$}{ WHT} {OFF}{7 SP ACE}{RVS} "	453F	20 92 20	.ASC	" {OFF} [<4>] {RV S} {OFF}{18 SPAC E}"
434F	20 92 9E	.ASC	" {OFF}{YEL}NI<3 >10{YEL}N{RVS}[<2>] {OFF}{YEL}I< 14 Y>]"	4559	20 20 20	.ASC	"{6
436A	B7 B7 B7	.ASC	"[<8 Y>][<2>]{RVS } {0FF}{YEL} <u>M</u> [<3	4571	92 20 12	.ASC	"{OFF} {RVS}{WH T}{22 SPACE}"
			> Q{YEL}M{RVS}{ WHT} {OFF}{2 SP	458B	20 20 20	.ASC	"{16 SPACE}{2 UP
4389	20 92 96	.ASC	ACE}000{2 SPACE }{RVS} "	459E 459F	00 TABLE2	.BYTE	}{OFF}"
.000	20 02 00	.Auu	" {OFF} <3> Q{YEL }N{RED} Q{RVS} < 2> {OFF} {RED}	459F	9C 57 48	.ASC	"{PUR}WHITE WIN S!"
43A4	D1 20 D1	.ASC	<u>QQQQQ</u> QQ″ ″ <u>QQQQ</u> E2> {RVS	45AB 45AC	00 TABLE3	.BYTE	0
			} {OFF}{RED}Q{Y EL}M[<3>]Q{RVS}	45AC	9C 42 4C	.ASC	"{PUR}BLACK WIN S!"
			{WHT} {OFF} {7 SP ACE} {RVS} "	45B8	00	.BYTE	0

Eagles and Gators

Source code by Philip I. Nelson

Assorted declarations									
Best	801		•=	\$0801	084A		MOV2		\$05
Description				•	084C	D0 02		BNE	MOV3
10 10 10 10 10 10 10 10	assorted a	declarations			084E	E6 06		INC	\$06
BBO1		00010100110					MOV3	JMP	MOV1
BUTN1	RO1	PRTCOL	_	\$0286	: execu	rte at new lo	ocation		
BB01			_					522	*
WYRAS1			_			40:00:40		.IMP	\$4000
8011			_			40 00 40		0.0	4 .000
SAMBA					:				
Section Sect					. 6400	O to \$AAff			
B01							hara this part		
Section									
801 YEXPAN = \$D017 ; skill level screen, and main 801 VICIRQ = \$D019 ; setup for game. 801 XEXPAN = \$D01D ; setup for game. 801 BORDER = \$D020 4000 *= 801 BACKGR = \$D020 1									
Section			_						
Section Sect							, and main		
801					; setup	for game.			
801 BACKER = \$D021 ; clear variable storage area 801 JOY1 = \$DC00 ; clear variable storage area 801 JOY2 = \$DC01 4000 A9 38 LDA 801 TIMALO = \$DC04 4002 85 FB STA 801 RESET = \$FCE2 4004 A9 03 LDA 801 CHROUT = \$FFD2 4006 85 FC STA 801 PLOT = \$FFF0 4008 A0 BF CLDY 801 SCNKEY = \$FF9F 400A A9 00 CLRVAR LDA 801 GETIN = \$FFF2 400C 91 FB BDE STA 801 UDTIM = \$FFFA 400C 91 FB BDE STA 801 UDTIM = \$FFFA 400C 91 FB BDE STA 801 UDTIM = \$FFFA 400C 91 FB BDE STA 801 UDTIM = \$FFFA 400C 91 FB BDE STA 801 UDTIM = \$FFFA 400C 91 FB STA 801 UDTIM = \$FFFA 400C 91 FB BDE STA 801 UDTIM = \$FFFA 400C 91 FB BDE STA 801 UDTIM = \$FFFA 400C 91 FB BDE STA 801 UDTIM = \$FFFA 400C 91 FB BDE STA 801 UDTIM = \$FFFA 400C 91 FB BDE STA 801 18 08 00 BF 22 14 BPT 143,34,20,20,20,20 4019 A0 19 LDA 808 BF 22 14 BPT 143,34,20,20,20,20 4019 A0 19 LDA 808 BF 22 14 BPT 143,34,20,20,20,20 4019 A0 19 LDA 808 BF 22 14 BPT 143,34,20,20,20,20 4019 A0 19 LDA 808 BDE STA 803 BDE STA 804 BDE STA 804 BDE STA 805 BDE STA			_		i			_	
SDC01					4000			-	\$4000
801	801	BACKGR	=	\$D021	;				
STA		JOY1	_				rage area		
SDC04	301	JOY2	=	\$DC01					#\$3B
Section Sect			_		4002	85 FB		STA	\$FB
SFFD2			=	\$FCE2	4004	A9 03		LDA	#3
STA			_			85 FC		STA	\$FC
SCNKEY			=					LDY	#\$BF
STA							CLRVAR		#0
BOT UDTIM SFFEA 400E 88 DEY			_				02		(\$FB),Y
BNE									(4. 5), .
Degin with false basic line Clear sid chip - silence LDA	001	ODTIN	_	ψιιω					CLRVAR
So you can load and run like basic	hasin wit	h falsa hasia lina					ilence	DILL	OLITORI
801 18 08 00			-de				Helice	I DA	#\$FF
18 08 00	so you ca	an load and run like da	ISIC						\$FB
Record R	004 40		OVE	04.0.0.0.450					#\$D3
80B 8F 22 14 BYT 143,34,20,20,20,20,20 4019 A0 19 LDY 811 45 41 47 ASC "EAGLES" 401B A9 00 CLRSID LDA B17 00 00 00 BYT 0,0,0,0,0 401D 91 FB STA 401F 88 DEY Relocate main program to \$4000									
811 45 41 47 ASC "EAGLÉS" 401B A9 00 CLRSID LDA 817 00 00 00 00 BYT 0,0,0,0,0 401D 91 FB STA STA 801									\$FC
B17 00 00 00 00 BYT 0,0,0,0,0 401D 91 FB STA 401F 88 BNE 402D DF9 BNE FP FP STA 401F 88 STA 401F 88 STA 402D DF9 BNE FP FP FP STA 402D DF9 BNE FP FP FP FP FP FP FP F							or poin		#\$19
relocate main program to \$4000 401F 88 88F 88							CLRSID		#0
relocate main program to \$4000 4020 D0 F9	817 00	00 00	.BYT	0,0,0,0,0					(\$FB),Y
STA									
81C A0 00 LDY #0 4022 A9 93 LDA 81E A9 56 LDA #\$56 4024 20 D2 FF JSR 820 85 03 STA \$03 4027 A9 00 LDA 8822 A9 08 LDA #8 4029 8D 20 D0 STA 824 48 5 04 STA \$04 402C 8D 21 D0 STA 826 A9 00 LDA #0 402F 18 CLC 828 85 05 STA \$05 4030 A0 0B LDY 82A A9 40 LDA #\$40 4032 A2 05 LDX 82C 85 06 STA \$66 4034 A0 60 LDX 82C A9 43 LDA #\$E3 4037 A9 00 LDA 8320 A9 53 LDA #\$E3 4037 A9 00 LDA 8320 A9 10 LDA #\$E3 4037 A9 00 <t< td=""><td>relocate r</td><td>main program to \$400</td><td>0</td><td></td><td></td><td></td><td></td><td>BNE</td><td>CLRSID</td></t<>	relocate r	main program to \$400	0					BNE	CLRSID
RIE A9 56							and prompts		
820 85 03 STA \$03 4027 A9 00 LDA 822 A9 08 LDA #8 4029 8D 20 DO STA 824 85 04 STA \$04 402C 8D 21 DO STA 826 A9 00 LDA #0 402F 18 CLC 828 85 05 STA \$05 4030 A0 0B LDY 820 85 06 STA \$06 4032 A2 05 LDX 820 85 06 STA \$06 4034 20 F0 FF JSR 821 A9 40 LDA #\$40 4032 A2 05 LDX 822 A9 60 STA \$06 4034 20 F0 FF JSR 822 A9 63 LDA #\$53 4037 A9 00 LDA 8320 85 FB STA \$FB 4039 85 FB STA 832 A9 1C LDA #\$1C 403B A9 45 LDA 8334 85 FC STA \$FC 403D 85 FC STA 834 85 FC STA \$C 403D 85 FC STA 835 A5 03 MOV1 LDA \$03 403F 20 AD 42 JSR 836 A5 03 MOV1 LDA \$03 403F 20 AD 42 JSR 838 E5 FB SBC \$FB 4042 18 CLC 838 A5 04 LDA \$04 4043 A0 0C LDY 836 E5 FC SBC \$FC 4045 A2 08 LDX 837 B05 B0 13 BCS MOVDUN 4047 20 F0 FF JSR 838 B0 13 BCS MOVDUN 4047 20 F0 FF JSR 838 B0 13 BCS MOVDUN 4047 20 F0 FF JSR 838 B0 13 BCS MOVDUN 4047 20 F0 FF JSR 838 B0 13 BCS MOVDUN 4047 20 F0 FF JSR	81C A0	00	LDY	#0					#\$93
B22	81E A9	9 56	LDA	#\$56					CHROUT
822 A9 08 LDA #8 4029 8D 20 DO STA 824 85 04 STA \$04 402C 8D 21 DO STA 826 89 00 LDA #0 402F 18 CLC 828 85 05 STA \$05 4030 A0 0B LDY 82A A9 40 LDA #\$40 4032 A2 05 LDX 82C 85 06 STA \$06 4034 20 FO FF JSR 82E A9 E3 LDA #\$E3 4037 A9 00 LDA 830 85 FB STA STB 4039 85 FB STA 832 A9 1C LDA #\$1C 403B A9 45 LDA 834 85 FC STA \$FC 403B A9 45 LDA 834 85 FC STA \$FC 403D 85 FC STA 836 A5 03 MOV1 LDA \$03 403F 20 AD			STA	\$03	4027	A9 00		LDA	#0
824 85 04 STA \$04 402C 8D 21 D0 STA 826 A9 00 LDA #0 402F 18 CLC 828 85 05 STA \$05 4030 A0 0B LDY 82A A9 40 LDA #\$40 4032 A2 05 LDX 82C 85 06 STA \$06 4034 20 F0 FF JSR 882C A9 E3 LDA #\$E3 4037 A9 00 LDA 8830 85 FB STA \$FB 4039 85 FB STA 8834 85 FC STA \$FC 403B A9 45 LDA 8836 A5 O3 MOV1 LDA \$93 403F 20 AD 42 JSR 8838 E5 FB SBC \$FB 4042 18 CLC 883A A5 04 LDA \$04 4043 A0 0C LDY 883E B0 13 BCS MOVDUN 4045 <t< td=""><td></td><td>08</td><td>LDA</td><td>#8</td><td>4029</td><td>8D 20 D0</td><td>)</td><td>STA</td><td>BORDER</td></t<>		08	LDA	#8	4029	8D 20 D0)	STA	BORDER
826 A9 00 LDA #0 402F 18 CLC 828 A9 400 LDA #50 4030 A0 0B LDY 82A A9 40 LDA #\$40 4032 A2 05 LDX 82C 85 06 STA \$06 4034 20 F0 FF JSR 82E A9 E3 LDA #\$E3 4037 A9 00 LDA 830 85 FB STA SFB STA SFB STA 832 A9 1C LDA #\$1C 403B 85 FB STA 834 85 FC STA \$FC 403B 85 FC STA 836 A5 03 MOV1 LDA \$303 403F 20 AD 42 JSR 838 E5 FB SBC \$FB 4042 18 CLC <td></td> <td></td> <td></td> <td></td> <td>402C</td> <td></td> <td></td> <td>STA</td> <td>BACKGR</td>					402C			STA	BACKGR
1828 85 05 STA \$05 4030 A0 0B LDY 182A A9 40 LDA #\$40 4032 A2 05 LDX 182C 85 06 STA \$66 4034 20 F0 FF JSR 182E A9 E3 LDA #\$E3 4037 A9 00 LDA 183B A5 B STA \$FB 4039 85 FB STA 183B A9 IC LDA #\$1C 403B A9 45 LDA 183B A5 O3 MOV1 LDA \$303 403F 20 AD 42 JSR 183B A5 O3 MOV1 LDA \$303 403F 20 AD 42 JSR 183B B SBC \$FB 4042 18 CLC 183B A5 04 LDA \$04 <t< td=""><td></td><td></td><td></td><td></td><td>402F</td><td>18</td><td></td><td>CLC</td><td></td></t<>					402F	18		CLC	
No.									#\$0B
NSC									#5
No.									PLOT
1830 85 FB									#0
1832 A9 1C									\$FB
DB34 85 FC STA \$FC 403D 85 FC STA DB38 A5 03 MOV1 LDA \$03 403F 20 AD 42 JSR DB38 E5 FB SBC \$FB 4042 18 CLC DB3A A5 04 LDA \$04 4043 A0 0C LDY DB3C E5 FC SBC \$FC 4045 A2 08 LDX DB3E B0 13 BCS MOVDUN 4047 20 FO FF JSR DB4U B1 03 LDA (\$03),Y 404A A9 14 LDA									#\$45
1836 A5 03 MOV1 LDA \$03 403F 20 AD 42 JSR 1838 E5 FB SBC \$FB 4042 18 CLC 183A A5 04 LDA \$04 4043 A0 0C LDY 183C E5 FC SBC \$FC 4045 A2 08 LDX 183E B0 13 BCS MOVDUN 4047 20 F0 FF JSR 1840 B1 03 LDA (\$03),Y 404A A9 14 LDA									\$FC
1838 E5 FB SBC \$FB 4042 18 CLC 183A A5 04 LDA \$04 4043 A0 0C LDY 183C E5 FC SBC \$FC 4045 A2 08 LDX 184C B1 03 BCS MOVDUN 4047 20 F0 FF JSR 184C B1 03 LDA (\$03),Y 404A A9 14 LDA)		PRTIT
83A A5 04 LDA \$04 4043 A0 0C LDY 83C E5 FC SBC \$FC 4045 A2 08 LDX 83E B0 13 BCS MOVDUN 4047 20 F0 FF JSR 840 B1 03 LDA (\$03),Y 404A A9 14 LDA							1		Phili
B3C E5 FC SBC \$FC 4045 A2 08 LDX B3E B0 13 BCS MOVDUN 4047 20 F0 FF JSR B40 B1 03 LDA (\$03),Y 404A A9 14 LDA									
88E BO 13 BCS MOVDUN 4047 20 FO FF JSR 840 B1 03 LDA (\$03),Y 404A A9 14 LDA									#\$0C
0840 B1 03 LDA (\$03),Y 404A A9 14 LDA									#8
0840 B1 03 LDA (\$03),Y 404A A9 14 LDA	183E BC	13	BCS	MOVDUN					PLOT
		1 03	LDA	(\$03),Y					#\$14
			STA	(\$05),Y	404C	85 FB			\$FB
0844 E6 03 INC \$03" 404E A9 45 LDA								LDA	#\$45
0846 DO 02 BNE MOV2 4050 85 FC STA								STA	\$FC
0848 E6 04 INC \$04 4052 20 AD 42 JSR							2		PRTIT
0010 20 01				 -			-		

; relocate sprite shape data			40DC 18	CLC	
; and set up sounds			40DD A0 11	LDY	#\$11
4055 20 1E 43	JSR	SHPREL	40DF A2 0F	LDX	#\$0F
4058 18	CLC		40E1 20 F0 FF	JSR	PLOT
4059 AO OA	LDY	#\$0A	40E4 A9 68	LDA	#\$68
405B A2 0E	LDX	#\$0E	40E6 85 FB	STA	\$FB
405D 20 F0 FF	JSR	PLOT	40E8 A9 45	LDA	#\$45
4060 A9 26	LDA	#\$26	40EA 85 FC	STA	\$FC
4062 85 FB	STA	\$FB	40EC 20 AD 42	JSR	PRTIT
4064 A9 45	LDA	#\$4 5	; press 1-9 for skill or q to quit		
4066 85 FC	STA	\$FC	; scan keyboard		
4068 20 AD 42	JSR	PRTIT	40EF 20 9F FF KEY2	JSR	SCNKEY
406B 20 CD 42	JSR	SETTIT	40F2 20 E4 FF	JSR	GETIN
; animation loop for title screen			40F5 C9 00	CMP	#0
406E 18 ANITIT	CLC		40F7 F0 F6	BEQ	KEY2
406F A0 OD	LDY	#\$0D	; is it 'q'		
4071 A2 11	LDX	#\$11	40F9 C9 51	CMP	#\$51
4073 20 F0 FF	JSR	PLOT	40FB D0 03	BNE	KEY3
4076 A9 3B	LDA	#\$3B	; quit - jump to power-on reset		
4078 85 FB	STA	\$FB	40FD 4C E2 FC	JMP	RESET
407A A9 45	LDA	#\$45	; reject if lower than '1'		
407C 85 FC	STA	\$FC	4100 C9 31 KEY3	CMP	#\$31
407E A0 00	LDY	#0	4102 B0 03	BCS	KEY4
; move sprites on title screen			4104 4C EF 40	JMP	KEY2
4080 20 BD 42 TITMOR	JSR	MOVTIT	; reject if higher than '9'		
; random printing color			4107 C9 3A KEY4	CMP	#\$3A
4083 AD 04 DC	LDA	TIMALO	4109 B0 E4	BCS	KEY2
4086 8D 86 02	STA	PRTCOL	410B 38	SEC	
4089 B1 FB	LDA	(\$FB),Y	410C E9 30	SBC	#\$30
408B C9 7E	CMP	#\$7E	; record skill level		
408D F0 07	BEQ	KEY1	410E 8D 3F 03	STA	\$033F
408F 20 D2 FF	JSR	CHROUT	; clear screen		
4092 C8	INY	TITMAND	4111 A9 93	LDA	#\$93
4093 4C 80 40	JMP	TITMOR	4113 20 D2 FF	JSR	CHROUT
; check for y or n keypress	ICD	CONTINENT	4116 00 00 00	JSR	SETSID
4096 20 9F FF KEY1	JSR	SCNKEY	; go begin game		
4099 20 E4 FF	JSR	GETIN	4119 00 00 00	JMP	MAINLOOP
409C C9 00 409E F0 CE	CMP	#0	•		
	BEQ	ANITIT	i diselessinatessina sassas		
; is it 'y' 40A0 C9 59	CMP	#\$59	; display instruction screen		
40A0 09 39 40A2 F0 78	BEQ		4440 40.00 (NOTO)		
40A2 FO 78	DEU	INSTRU	411C A9 93 INSTRU	LDA	#\$93
40A4 C9 4E	CMP	#\$4E	411E 20 D2 FF 4121 20 74 42	JSR	CHROUT
40A6 FO 03	BEQ	PIKSKL		JSR	INSINT
40A8 4C 6E 40	JMP	ANITIT	4124 18 4125 AO 04	CLC	
	DIVIE	WALLE	4127 A2 00	LDX	#4 #0
·			4129 20 F0 FF	JSR	#U PLOT
; display pick-skill-level screen			412C A9 7C	LDA	
· uopiay pick-skiii-lovei sciesii			412E 85 FB	STA	#\$7C \$FB
, 40ab a9 93 Pikskl	LDA	#\$93	4130 A9 45	LDA	#\$45
40AD 20 D2 FF	JSR	CHROUT	4132 85 FC	STA	\$FC
40B0 20 74 42	JSR	INSINT	4134 A9 05	LDA	#5
40B3 20 6D 41	JSR	MAINSET	4136 85 FD	STA	\$FD
40B6 18	CLC		4138 A9 47	LDA	#\$47
40B7 A0 11	LDY	#\$11	413A 85 FE	STA	\$FE
40B9 A2 09	LDX	#9	413C A0 00	LDY	#0
40BB 20 F0 FF	JSR	PLOT	413E B1 FB INSTR1	LDA	(\$FB),Y
40BE A9 4C	LDA	#\$4C	4140 20 D2 FF	JSR	CHROUT
40C0 85 FB	STA	\$FB	4143 A5 FB	LDA	\$FB
40C2 A9 45	LDA	#\$45	4145 C9 FF	CMP	#\$FF
40C4 85 FC	STA	\$FC	4147 90 02	BCC	NO1
40C6 20 AD 42	JSR	PRTIT	4149 E6 FC	INC	\$FC
4009 18	CLC		414B E6 FB NO1	INC	\$FB
40CA A0 14	ĹĎÝ	#\$14	414D A5 FB	LDA	\$FB
40CC A2 0B	LDX	#\$0B	414F C5 FD	CMP	\$FD
40CE 20 F0 FF					
	JSR	PLOT	4151 A5 FC	LDA	SFC
40D1 A9 5E	JSR LDA	#\$5E	4153 E5 FE	LDA SBC	\$FC \$FE
40D1 A9 5E 40D3 85 FB	JSR LDA STA	#\$5E \$FB	4151 A5 FC 4153 E5 FE 4155 90 E7		
40D1 A9 5E 40D3 85 FB 40D5 A9 45	JSR LDA STA LDA	#\$5E \$FB #\$45	4153 E5 FE 4155 90 E7 ; wait for either joystick button	SBC	\$FE
40D1 A9 5E 40D3 85 FB	JSR LDA STA	#\$5E \$FB	4153 E5 FE 4155 90 E7	SBC	\$FE

415D C9 00	CMP	#0	41CD 8D 6D 03	STA	\$036D
415F F0 09 4161 AD 6A 03	BEQ LDA	INSTRDN BUTN2	41D0 8D 6F 03 ; gator vertical position shadows	STA	\$036F
4161 AD 6A 03 4164 C9 00	CMP	#0	; start at \$0372. each gater begin	ns	
4166 FO 02	BEQ	INSTRUM	; \$0a pixels lower than the last.		
4168 D0 ED	BNE	Instrmo	41D3 A9 71	LDA	#\$71
; exit to pick-skill-level screen	1840	DIIZOZZ	41D5 85 FB	STA	\$FB
416A 4C AB 40 INSTRDN	JMP	PIKSKL	41D7 A9 32 41D9 85 FD	LDA STA	#\$32 \$FD
_			41DB A0 08	LDY	#8
; main setup for game			41DD A5 FD MSET5	LDA	\$FD
;		_	41DF 91 FB	STA	(\$FB),Y
416D MAINSET	==	•	41E1 18 41E2 69 0A	CLC	#\$0A
; gator shape pointer shadow reg ; are located at \$0341-\$0347.	JS		41E2 69 0A 41E4 85 FD	STA	\$FD
; use shapes \$e4-\$f1.			41E6 88	DËY	
416D A9 40	LDA	#\$40	41E7 D0 F4	BNE	MSET5
416F 85 FB	STA	\$FB	; eagle vertical position shadows		
4171 A9 03 4173 85 FC	LDA STA	#3 \$FC	; start at \$037a. each one begins ; \$0a pixels higher than the last.	,	
4175 A9 E4	LDA	#\$E4	41E9 A9 79	LDA	#\$79
4177 85 FD	STA	\$FD	41EB 85 FB	STA	\$FB
4179 A0 08	LDY	#8	41ED A9 E6	LDA	#\$E6
417B A5 FD MSET1	LDA	\$FD	41EF 85 FD	STA	\$FD
417D 91 FB 417F E6 FD	STA INC	(\$FB),Y \$FD	41F1 A0 08 41F3 A5 FD MSET6	LDY LDA	#8 \$FD
4181 E6 FD	INC	\$FD	41F5 91 FB	STA	(\$FB),Y
4183 88	DEY	4.5	41F7 38	SEC	(4),.
4184 CO 01	CPY	#1	41F8 E9 0A	SBC	#\$0A
4186 D0 F3	BNE	MSET1	41FA 85 FD	STA	\$FD
; gator color shadow registers ; are from \$\$0348-\$034f. all 13.			41FC 88 41FD D0 F4	DEY BNE	MSET6
4188 A9 EA	LDA	#\$EA	; eagle direction flags start at	DIAL	WOLTO
418A 91 FB	STA	(\$FB),Y			
418C AO 08	LDY	#8	; \$0382. gator direction flags ; start at \$038a. for these,	_	
418E A9 48	LDA	#\$48	; 255=down, 1=up and 0=cla	mped.	
4190 85 FB 4192 A9 0D MSET2	sta LDA	\$FB #\$0D	; creatures alternate directions ; at beginning of game.		
4194 91 FB	STA	(\$FB),Y	41FF A9 81	LDA	#\$81
4196 88	DEY	(4)/-	4201 85 FB	STA	\$FB
4197 D0 F9	BNE	MSET2	4201 85 FB 4203 A0 10	STA LDY	#\$10
4197 DO F9 ; eagle shape pointer shadow reg	BNE	, ,	4201 85 FB 4203 A0 10 4205 A9 FF MSET7	STA LDY LDA	#\$10 #\$FF
4197 DO F9 ; eagle shape pointer shadow req ; are from \$0351-\$0357.	BNE	, ,	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB	STA LDY LDA STA	#\$10
4197 D0 F9 ; eagle shape pointer shadow reg ; are from \$0351-\$0357. ; use shapes \$f2-\$ff.	BNE g's	MSET2	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88	STA LDY LDA STA DEY	#\$10 #\$FF
4197 DO F9 ; eagle shape pointer shadow req ; are from \$0351-\$0357.	BNE	, ,	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB	STA LDY LDA STA DEY LDA STA	#\$10 #\$FF (\$FB),Y
4197 D0 F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 419B 85 FB 419D A9 F2	BNE g's LDA STA LDA	#\$50 \$FB #\$F2	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4208 88 420A A9 01 420C 91 FB 420E 88	STA LDY LDA STA DEY LDA STA DEY	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y
4197 D0 F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 419B 85 FB 419D A9 F2 419F 85 FD	BNE g's LDA STA LDA STA	#\$50 \$FB #\$F2 \$FD	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4	STA LDY LDA STA DEY LDA STA	#\$10 #\$FF (\$FB),Y
4197 D0 F9; eagle shape pointer shadow re; are from \$0351-\$0357.; use shapes \$f2-\$ff. 4199 A9 50 419B 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08	BNE g's LDA STA LDA STA LDY	#\$50 \$FB #\$F2 \$FD #8	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas	STA LDY LDA STA DEY LDA STA DEY BNE	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 419B 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3	BNE g's LDA STA LDA STA LDY LDA	#\$50 \$FB #\$F2 \$FD #8	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82	STA LDY LDA STA DEY LDA STA DEY	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y
4197 D0 F9; eagle shape pointer shadow re; are from \$0351-\$0357.; use shapes \$f2-\$ff. 4199 A9 50 419B 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08	BNE g's LDA STA LDA STA LDY LDA STA INC	#\$50 \$FB #\$F2 \$FD #8 \$FD (\$FB),Y	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 4200 A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A	STA LDY LDA STA DEY LDA STA DEY BNE LDA STA LDA	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 419B 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD	BNE J's LDA STA LDA STA LDY LDA STA INC INC	#\$50 \$FB #\$F2 \$FD #8 \$FD (\$FB),Y	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 8D 94 03	STA LDY LDA STA DEY LDA STA DEY BNE LDA STA LDA STA	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A \$0394
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 419B 85 FB 419D A9 F2 419F 85 FD 41A1 A0 G8 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41A9 E6 FD 41A8 88	BNE g's LDA STA LDA STA LDA STA LDA STA LDA STA INC INC DEY	#\$50 \$FB #\$F2 \$FD #8 \$FD (\$FB),Y \$FD	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 A9 94 03 421B A9 72	STA LDY LDA STA DEY LDA STA DEY BNE LDA STA LDA STA LDA	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A \$0394 #\$72
4197 D0 F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 419B 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41A8 88 41AC C0 01	BNE g's LDA STA LDA STA LDA STA LDA STA LDA STA INC INC DEY CPY	#\$50 \$FB #\$F2 \$FD #8 \$FD (\$FB),Y \$FD \$FD	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 4200 A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 8D 94 03 4218 A9 72 4210 8D 96 03	STA LDY LDA STA DEY LDA STA DEY BNE LDA STA LDA STA LDA STA	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A \$0394 #\$72 \$0396
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 4198 B5 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41A8 88 41AC CO 01 41AE DO F3	BNE g's LDA STA LDA STA LDA STA LDA STA LDA STA INC INC DEY	#\$50 \$FB #\$F2 \$FD #8 \$FD (\$FB),Y \$FD	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 A9 94 03 421B A9 72	STA LDY LDA STA DEY LDA STA DEY BNE LDA STA LDA STA LDA	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A \$0394 #\$72
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 419B 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A7 E6 FD 41A8 E6 FD 41A8 E6 FD 41AB E7 41AB B8 41AC C0 01 41AE DD F3 ; eagle color shadow registers ; are from \$0359-\$0360. all 0.	BNE LDA STA LDA STA LDA STA LDY LDA STA INC INC DEY CPY BNE	#\$50 \$F8 #\$F2 \$FD #8 \$FD (\$FB),Y \$FD \$FD #1 MSET3	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 4200 A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 8D 94 03 4218 A9 72 4210 BD 96 03 4220 A9 7A 4222 BD 98 03 4225 A9 03	STA LDY LDA STA DEY BNE LDA STA LDA STA LDA STA LDA STA LDA	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A \$0394 \$0396 #\$7A \$0398
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 419B B5 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41A8 88 41AC C0 01 41AE DO F3 ; eagle color shadow registers ; are from \$0359-\$0360. all 0.	BNE UDA STA LDA STA LDA STA LDY LDA STA INC DEY CPY BNE	#\$50 \$FB #\$F2 \$FD \$FD (\$FB),Y \$FD #1 MSET3	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 8D 94 03 4218 A9 72 4210 8D 96 03 4220 A9 7A 4222 8D 98 03 4227 A9 03	STA LDY LDA STA DEY LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A \$0394 #\$7A \$0398 #378 \$0398 \$0393
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 419B 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41AB 88 41AC C0 01 41AE DO F3 ; eagle color shadow registers ; are from \$0359-\$0360. all 0. 4180 A9 F2 4182 91 FB	BNE STA LDA STA LDA STA LDY LDA STA INC INC OPPY BNE LDA STA	#\$50 \$FB #\$F2 \$FD #8 \$FD \$FD \$FD #1 MSET3 #\$F2 (\$FB),Y	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 A9 94 4218 A9 97 4210 8D 96 03 4220 A9 7A 4222 8D 98 03 4225 A9 03 4227 A9 03 4227 BD 93 03 4227 BD 93 03 4228 BD 93 03	STA LDY LDA STA DEY LDA STA LDA STA LDA STA LDA STA LDA STA STA	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A \$0392 #\$72 \$0396 #\$72 \$0398 #3 \$0393 \$0393
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 419B 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41A9 E6 FD 41AB 88 41AC C0 01 41AE DO F3 ; eagle color shadow registers ; are from \$0359-\$0360. all 0. 41B0 A9 F2 41B2 91 FB 41A1 B1 A9 59	BNE LDA STA LDA STA LDY LDA STA INC DEY CPY BNE LDA STA LDA STA LDA	#\$50 \$F8 #\$F2 \$FD #8 \$FD \$FD \$FD #1 MSET3 #\$F2 (\$FB),Y #\$59	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 4200 A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 8D 94 03 4218 A9 72 4210 8D 96 03 4220 A9 7A 4222 8D 98 03 4227 8D 93 03 4227 8D 93 03 4227 8D 93 03 4220 8D 97 03	STA LDY LDA STA DEY LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A \$0394 #\$7A \$0398 #378 \$0398 \$0393
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 419B 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41AB 88 41AC CD 01 41AE DD F3 ; eagle color shadow registers ; are from \$0359-\$0360. all 0. 41B0 A9 F2 41B2 91 FB 41B4 A9 59 41B6 85 FB 41B8 AD 07	BNE STA LDA STA LDA STA LDY LDA STA INC INC OPPY BNE LDA STA	#\$50 \$FB #\$F2 \$FD #8 \$FD \$FD,Y \$FD #1 MSET3 #\$F2 (\$FB),Y #\$59 \$FB	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 BD 94 03 4218 A9 72 4210 8D 96 03 4220 A9 7A 4222 8D 98 03 4227 8D 93 03 422A 8D 95 03 422A 8D 97 03 4230 8D 99 03 ; set horizontal position for all	STA LDY LDA STA DEY LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A \$0393 \$0396 #\$72 \$0396 #\$78 \$0393 \$0393 \$0393 \$0393
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 4198 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41A9 E6 FD 41AB 88 41AC C0 01 41AE D0 F3 ; eagle color shadow registers ; are from \$0359-\$0360. all 0. 41B0 A9 F2 41B2 91 FB 41B4 A9 59 41B6 85 FB 41B8 A0 07 41BA A9 00 MSET4	LDA STA LDA STA LDA STA LDA STA INC INC INC PEY BNE LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA LDA LDA LDA STA INC INC INC INC INC INC INC INC INC INC	#\$50 \$F8 #\$F2 \$FD #8 \$FD \$FB,Y \$FD #1 MSET3 #\$F2 (\$FB),Y #\$59 \$FB #7	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 8D 94 03 4218 BD 95 03 4220 A9 7A 4222 BD 98 03 4227 BD 93 03 4227 BD 93 03 4220 BD 97 03 4220 BD 97 03 4230 BD 99 03 ; set horizontal position for all ; sprites. these don't change	STA LDY LDA STA DEY BNE LDA STA LDA STA LDA STA LDA STA STA STA STA	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A \$0393 \$0396 #\$72 \$0396 #\$78 \$0393 \$0393 \$0393 \$0393
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 4198 B5 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41AB 88 41AC CO 01 41AE DO F3 ; eagle color shadow registers ; are from \$0359-\$0360. all 0. 41B0 A9 F2 41B2 91 FB 41B4 A9 59 41B6 B5 FB 41B8 A0 07 41BB A9 00 MSET4 41BC 91 FB	BNE STA LDA STA LDA STA LDA STA LDA STA LDA STA LDC DEYY BNE LDA STA LDY LDA STA LDY LDA STA LDY LDA STA	#\$50 \$FB #\$F2 \$FD #8 \$FD \$FD,Y \$FD #1 MSET3 #\$F2 (\$FB),Y #\$59 \$FB	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 8D 94 03 4218 A9 72 421D 8D 96 03 4220 A9 7A 4222 8D 98 03 4227 8D 93 03 422A 8D 95 03 422A 8D 97 03 4230 8D 99 03 ; set horizontal position for all ; sprites, these don't change ; during the course of the game.	STA LDA STA DEY LDA STA DEY BNE LDA STA LDA STA LDA STA LDA STA STA STA STA STA	#\$10 #\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A \$0394 #\$72 \$0398 #37 \$0398 \$393 \$0395 \$0395
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 4198 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41AB 88 41AC CO 01 41AE DO F3 ; eagle color shadow registers ; are from \$0359-\$0360. all 0. 41B0 A9 F2 41B2 91 FB 41B4 A9 59 41B6 85 FB 41BB A0 07 41BB AO 07 41BB AO 00 MSET4 41BC 91 FB 41BC 91 FB	BNE STA LDA STA LDA STA LDA STA LDA STA INC CPY BNE LDA STA LDY LDA STA LDA ST	#\$50 \$FB #\$F2 \$FD #8 \$FD \$FD #1 MSET3 #\$F2 (\$FB),Y #\$59 \$FB #7 #0 (\$FB),Y	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 A9 94 03 4218 A9 72 4210 8D 96 03 4220 A9 7A 4222 8D 98 03 4227 A9 03 4227 A9 03 4227 A9 03 4228 BD 97 03 4220 BD 99 03 ; set horizontal position for all ; sprites. these don't change ; during the course of the game.	STA LDA STA DEY LDA STA DEY BNE LDA STA STA LDA STA LDA STA LDA STA LDA STA STA LDA STA STA LDA STA STA LDA STA STA STA STA STA STA STA STA STA ST	#\$10 #\$FF (\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$394 #\$72 \$0394 #\$72 \$0396 #\$393 \$0397 \$0399 #\$1E
4197 DO F9 ; eagle shape pointer shadow re; rare from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 4198 B5 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41A9 E6 FD 41A9 E6 FD 41AB 88 41AC C0 01 41AE D0 F3 ; eagle color shadow registers; are from \$0359-\$0360. all 0. 41B0 A9 F2 41B2 91 FB 41B8 A0 07 41BB A0 00 MSET4 41BC 91 FB 41BE 88 41BF D0 F9	BNE STA LDA STA LDA STA LDA STA LDA STA LDA STA LDC DEYY BNE LDA STA LDY LDA STA LDY LDA STA LDY LDA STA	#\$50 \$F8 #\$F2 \$FD #8 \$FD \$FD \$FD #1 MSET3 #\$F2 (\$FB),Y #\$59 \$FB #7 #0 (\$FB),Y	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 8D 94 03 4218 A9 72 421D 8D 96 03 4220 A9 7A 4222 8D 98 03 4227 8D 93 03 422A 8D 95 03 422A 8D 97 03 4230 8D 99 03 ; set horizontal position for all ; sprites, these don't change ; during the course of the game.	STA LDA STA DEY LDA STA DEY BNE LDA STA LDA STA LDA STA LDA STA STA STA STA STA	#\$10 #\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$8A \$0394 #\$72 \$0398 #37 \$0398 \$393 \$0395 \$0395
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 4198 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41AB 88 41AC CO 01 41AB 88 41AC CO 01 41AB DO F3 ; eagle color shadow registers ; are from \$0359-\$0360. all 0. 41B0 A9 F2 41B2 91 FB 41B4 A9 59 41B6 85 FB 41BB A0 07 41BB A0 07 41BB A0 00 MSET4 41BC 91 FB 41BB 88 41BF DO F9 41C1 A9 5B 41C1 A9 5B 41C3 8D 6C 03	BNE BNE LDA STA LDA ST	#\$50 \$FB #\$F2 \$FD #8 \$FD,Y \$FD #1 MSET3 #\$F2 (\$FB),Y #\$59 \$FB #7 #0 (\$FB),Y #\$59 \$FB	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 A9 94 03 4218 A9 72 4210 8D 96 03 4220 A9 7A 4222 8D 98 03 4227 A9 03 4227 A9 03 4227 A9 03 4227 A9 03 4228 BD 97 03 4220 BD 97 03 4230 BD 99 03 ; set horizontal position for all ; sprites, these don't change ; during the course of the game. 4233 A9 1E 4233 A9 16 4234 BD 05 D0	STA LIDA STA DEY BNE LIDA STA LIDA STA LIDA STA STA STA LIDA STA STA STA LIDA STA STA STA STA STA STA STA STA STA ST	#\$10 #\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$82 \$0394 #\$72 \$0398 #37 \$0398 \$0395 \$0395 \$0397 \$0399 #\$1E \$0000 #\$46 \$0002
4197 DO F9 ; eagle shape pointer shadow re; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 4198 B5 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41A8 B8 41AC C0 01 41AE D0 F3 ; eagle color shadow registers; are from \$0359-\$0360. all 0. 41B0 A9 F2 41B2 91 FB 41B8 A0 07 41BA A9 00 MSET4 41BC 91 FB 41BE 88 41BF D0 F9 41C1 A9 5B 41C3 BD 6C 03 41C6 A9 4E	BNE STA LDA	#\$50 \$FB #\$F2 \$FD #8 \$FD \$FD \$FD #1 MSET3 #\$F2 (\$FB),Y #\$59 \$FB #7 #0 (\$FB),Y MSET4 #\$5B \$C34E	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 8D 94 03 4218 8D 94 03 4218 A9 72 4210 8D 96 03 4220 A9 7A 4222 8D 98 03 4226 A9 03 4227 8D 93 03 4227 8D 93 03 4227 8D 93 03 4228 8D 95 03 4220 8D 97 03 4220 8D 97 03 4220 8D 97 03 4220 8D 99 03 ; set horizontal position for all ; sprites. these don't change ; during the course of the game. 4233 A9 1E 4235 8D 00 D0 4238 A9 46 423A 8D 02 D0 423B A9 66 423A 8D 02 D0 423B A9 66 423A BD 02 D0 423B A9 66	STA LIDA STA DEY BNE LDA STA LDA STA LDA STA STA STA STA STA STA STA STA STA ST	#\$10 #\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0394 #\$7A \$0396 #\$7A \$0398 \$0393 \$0393 \$0395 \$0399 #\$1E \$0000 #\$462 \$0000 #\$662
4197 DO F9 ; eagle shape pointer shadow re; ; are from \$0351-\$0357. ; use shapes \$f2-\$ff. 4199 A9 50 4198 85 FB 419D A9 F2 419F 85 FD 41A1 A0 08 41A3 A5 FD MSET3 41A5 91 FB 41A7 E6 FD 41AB 88 41AC CO 01 41AB 88 41AC CO 01 41AB DO F3 ; eagle color shadow registers ; are from \$0359-\$0360. all 0. 41B0 A9 F2 41B2 91 FB 41B4 A9 59 41B6 85 FB 41BB A0 07 41BB A0 07 41BB A0 00 MSET4 41BC 91 FB 41BB 88 41BF DO F9 41C1 A9 5B 41C1 A9 5B 41C3 8D 6C 03	BNE BNE LDA STA LDA ST	#\$50 \$FB #\$F2 \$FD #8 \$FD,Y \$FD #1 MSET3 #\$F2 (\$FB),Y #\$59 \$FB #7 #0 (\$FB),Y #\$59 \$FB	4201 85 FB 4203 A0 10 4205 A9 FF MSET7 4207 91 FB 4209 88 420A A9 01 420C 91 FB 420E 88 420F D0 F4 ; pointers to data areas 4211 A9 82 4213 8D 92 03 4216 A9 8A 4218 A9 94 03 4218 A9 72 4210 8D 96 03 4220 A9 7A 4222 8D 98 03 4227 A9 03 4227 A9 03 4227 A9 03 4227 A9 03 4228 BD 97 03 4220 BD 97 03 4230 BD 99 03 ; set horizontal position for all ; sprites, these don't change ; during the course of the game. 4233 A9 1E 4233 A9 16 4234 BD 05 D0	STA LIDA STA DEY BNE LIDA STA LIDA STA LIDA STA STA STA LIDA STA STA STA LIDA STA STA STA STA STA STA STA STA STA ST	#\$10 #\$FB),Y #1 (\$FB),Y MSET7 #\$82 \$0392 #\$82 \$0394 #\$72 \$0398 #37 \$0398 \$0395 \$0395 \$0397 \$0399 #\$1E \$0000 #\$46 \$0002

4244	8D 06 D0	STA	\$D006	42BC	60	PRTDUN	RTS	
4247	A9 BE	LDA	#\$BE		00	FRIDON	NIO	
4249	8D 08 D0	STA	\$D008	-				
424C	A9 E6	LDA	#\$E6	: move	sprites for	title screen		
424E	8D 0A D0	STA	\$D00A	,				
4251	A9 OF	LDA	#\$0F	42BD	EE 01 D0		INC	\$D001
4253	8D OC D0	STA	\$D00C	42C0	CE 03 D0		DEC	\$D003
4256	A9 37	LDA	#\$37	42C3	CE OD DO		DEC	\$D00D
4258	8D OE DO	STA	\$D00E	42C6	EE OF DO		INC	\$D00F
	for horizontals	LDA	4400		te sound eff	ects	IOD	ONDER
425B 425D	A9 C0 8D 10 D0	LDA STA	#\$C0 \$D010	4209	20 CA 44 60		JSR	SNDTIT
	ert or horizontal expansion	SIA	争DO 10	42CC	00		RTS	
4260	A9 00	LDA	#0	:				
4262	8D 17 D0	STA	\$D017	set u	p sprites for	title som		
4265	8D 1D D0	STA	\$D01D	:	p op.,,,,,	440 00111		
; sid v	olume down low	•	******	42CD	A9 1E	SETTIT	LDA	#\$1E
4268	A9 01	LDA	#1	42CF	8D 00 D0		STA	\$D000
426A	8D 18 D4	STA	\$D418	42D2	A9 46		LDA	#\$46
426D	EA	NOP		42D4	8D 02 D0		STA	\$D002
	le all sprites			42D7	A9 C0		LDA	#\$C0
426E	A9 FF	LDA	#\$FF	42D9	8D 10 D0		STA	\$D010
4270	8D 15 D0	STA	ENABLE	42DC	A9 OF		LDA	#\$0F
4273	60	RTS		42DE	8D 0C D0		STA	\$DOOC
:				42E1 42E3	A9 37 8D 0E D0		LDA STA	#\$37 \$D00E
set u	p split screen effects			42E6	A9 07		LDA	ֆՍՍՍԸ #7
:	ip apric acroom enects			42E8	8D 27 D0		STA	\$D027
4274	INSINT	===	•	42EB	8D 2E DO		STA	\$D02F
	ole interrupts			42EE	A9 0D		LDA	#\$0D
4274	78	SEI		42F0	8D 28 D0		STA	\$D028
4275	A9 00	LDA	#0	42F3	8D 2D D0		STA	\$D02D
4277	8D OE DC	STA	\$DC0E	42F6	A9 C3		LDA	#\$C3
	t irq vector at \$0314/\$0315			42F8	8D 15 D0		STA	enable
	oint to our code at \$4a8c.			42FB	A9 FF		LDA	#\$FF
427A	A9 8C	LDA	#\$8C	42FD	8D F8 07		STA	\$07F8
427C 427F	8D 14 03 A9 4A	STA	\$0314	4300	8D FF 07		STA	\$07FF
427F 4281	8D 15 03	LDA STA	#\$4A \$0315	4303 4305	A9 E4 8D F9 07		LDA	#\$E4
	of-screen split value	SIA	φυστο	4308	A9 EA		sta LDA	\$07F9 #\$EA
4284	A9 OF	LDA	#\$0F	430A	8D FE 07		STA	\$07FE
4286	8D 88 4A	STA	MYRAS1	430D	60		RTS	ψ071 L
: set s	plit at screen line 150	•		430E	ĔĂ		NOP	
4289	A9 96	LDA	#\$96	430F	ĒĀ		NOP	
428B	8D 89 4A	STA	MYRAS2	;				
428E	A9 00	LDA	#0	;				
4290	8D 8A 4A	STA	GATSCR	; reloca	ate a sprite :	shape		
4293	A9 03	LDA	#3					
4295	8D 8B 4A	STA	EAGSCR	4310	A0 00	RELONE	LDY	#0
; m on 4298	t of raster compare reg off	LDA	\$D011	4312	B1 FB	RELMOR	LDA	(\$FB),Y
429B	AD 11 D0 29 7F	AND	ФВОТТ #\$7F	4314 4316	91 FD C8		sta Iny	(\$FD),Y
429D	8D 11 D0	STA	\$D011	4317	CO 40		CPY	#\$40
	aster compare to 150	UIA	ΨΡΟΤΙ	4319	FO 02		BEQ	RELDUN
42A0	AD 89 4A	LDA	MYRAS2	431B	D0 F5		BNE	RELMOR
42A3	8D 12 D0	STA	\$D012	431D	60	RELDUN	RTS	TILLINGIT
; enab	le raster compare irq			:				
42A6	A9 01	LDA	#1	;				
42A8	8D 1A D0	STA	\$D01A		ite all sprite			
	le interrupts			; and s	et up sid ch	ip for sounds		
42AB	58	CLI		,,,,,	40.00	OLIDDE:		
42AC	60	RTS		431E	A9 08	SHPREL	LDA	#8
:				4320 4322	85 FB A9 47		STA	\$FB
tout	output			4322 4324	A9 47 85 FC		LDA STA	#\$47 \$FC
42AD	AO OO PRTIT	LDY	#0	4326	A9 C0		LDA	#\$CO
42AF	B1 FB PTMOR	LDA	(\$FB),Y	4328	85 FD		STA	\$FD
42B1	C9 7E	CMP	#\$7E	432A	A9 3A		LDA	#\$3A
42B3	F0 07	BEQ	PRTDUN	432C	85 FE		STA	\$FE
42B5	20 D2 FF	JSR	CHROUT	432E	20 10 43		JSR	RELONE
42B8	C8	INY		4331	A9 80		LDA	#\$80
42B9	4C AF 42	JMP	PTMOR	4333	85 FD		STA	\$FD

4335 20 10 43	JSR	RELONE	43D2	85 FD	STA	\$FD
4338 A9 48	LDA	#\$48	43D4	A9 3E	LDA STA JSR LDA STA LDA STA LDA STA LDA	#\$3E \$FE RELONE
433A 85 FB 433C A9 00	STA	\$FB	43D6	85 FE	STA	\$FE
433C A9 00 433E 85 FD 4340 A9 3B 4342 85 FE 4344 20 10 43 4347 A9 40 4349 85 FD	LDA	#0	43D8	20 10 43	JSR	RELONE
433E 85 FD 4340 A9 3B 4342 85 FE 4344 20 10 43	STA	\$FD	43DR	A9 00	ΙDΔ	#0
4340 AO 3B	LDA	#63B	4300	85 ED	STA	ŠED.
4040 OF FF	CTA	# WOD	4200	00 10 42	010	DEI ONE
4342 00 FE	. 31A	DEL ONE	43UF	20 10 43	Jon	HELUNE
4344 20 10 43	Joh	HELUNE	43E2	A9 U0	LUA	#0
4347 A9 40	LDA	#\$40	43E4	85 FB	STA	\$FB
4347 A9 40 4349 85 FD	STA	\$FD	43E6	A9 49	LDA	#\$49
434B A9 3A	LDA	#\$3A	43E8	85 FC	STA	\$FC
434B A9 3A 434D 85 FE 434F 20 10 43 4352 A9 88	STA	\$FE	43EA	A9 80	LDA	#\$80
434F 20 10 43	JSR	RELONE	43EC	85 FD	STA	\$FD
4352 A9 88	LDA	#\$88	43EE	20 10 43	JSR	RELONE
4354 85 FB	STA	\$FB	43F1	A9 C0	LDA	#\$C0
4356 A9 00	LDA	#0	43F3	85 FD	STA	\$FD
4358 85 FD	STA	\$FD	43F5	A9 C0 85 FD A9 3D	IΠΔ	RELONE #0 RELONE #8 \$FB #\$49 \$FC #\$80 \$FD #\$CO \$FD #\$3D \$FE
435A 20 10 43	ICD	BEI ONE	43E7	85 EE	STA	REE
435D A9 40	JON J DA	MEAN.	4250	20 10 42	ICD	OEI ONE
435F 85 FD	LUA CTA	###U	4019	20 10 40 AO 40	JON	MELUNE MEAN
435F 85 FD 4361 A9 3B	SIA	ΦFU.	4050	A9 40	LUA	## Ф40
4361 A9 3B	LUA	#\$38	43FE	82 FB	SIA	⊅LR
4363 85 FE	STA	\$FE	4400	A9 80	LDA	#\$80
4361 A9 3B 4363 85 FE 4365 20 10 43	JSR	RELONE	4402	85 FD	STA	\$FD
4368 A9 C8	LDA	#\$C8	4404	20 10 43	JSR	RELONE
436A 85 FB	STA	\$FB	4407	A9 C0	LDA	#\$C0
4368 A9 C8 436A 85 FB 436C A9 80 436E 85 FD 4370 20 10 43	LDA	#\$80	4409	85 FD	STA	\$FD
436E 85 FD	STA	\$FD	440B	A9 3E	LDA	#\$3E
4370 20 10 43	JSR	RELONE	440D	85 FF	STA	\$FE
4368 A9 C8 4368 A9 C8 436C A9 80 436E 85 FD 4370 20 10 43 4373 A9 C	I DA	#\$CO	440F	A9 CO 85 FE 20 10 43 A9 3D 85 FE 20 10 43 A9 55 FB A9 80 85 FD 20 10 43 A9 CO A9 35 FE 20 10 43 A9 55 FE 20 10 43 A9 55 FE 20 10 43 A9 55 FE 20 10 45 A9 55 FE 20 10 85 FE 20 10 85 FE	JSR	\$FD #\$3D #\$3D #\$3D #\$48 \$FB #\$80 \$FD #\$5CO \$FD #\$3E \$FE RELONE #\$88 \$FB #0
4375 85 FD	STA	\$ED	4412	AQ 88	IDA	#\$88
4377 A9 39	IDA	#630	4414	95 ED	STA	##00
4379 85 FE	CTA	πφυσ ΦEC	4416	AO 00	STA LDA	#0
4379 85 FE 437B 20 10 43	OIA	ΦFE DELONE	4410	A9 88 85 FB A9 00 85 FD A9 3F	CTA	\$FD
437B 20 10 43	Jon	MELUNE	4410	02 LD	STA	φrυ.
437E A9 08	LUA	#8	441A	A9 3F	LDA	#\$3F
4380 85 FB	SIA	\$FB	4410	85 FE 20 10 43	SIA	\$FE
4382 A9 48 4384 85 FC	LDA	#\$48	441E	20 10 43	JSR	\$FE RELONE #\$40
4384 85 FC	STA	\$FC	4421	A9 40	LDA	#\$40
4386 AG RO	LDA	#\$80	4423	85 FD A9 3D	STA LDA STA	\$FD
4388 85 FD	STA	\$FD	4425	A9 3D	LDA	#\$3D
4388 85 FD 438A 20 10 43 438D A9 C0	JSR	relone	4427	85 FE	STA	#\$3D \$FE
438D A9 C0	LDA	#\$C0	4429	20 10 43	JSR	RELONE
438F 85 FD 4391 A9 3B 4393 85 FE 4395 20 10 43 4398 A9 48	STA	\$FD	442C	A9 C8	LDA	#\$C8
4391 A9 3B	LDA	#\$3B	442F	85 FB	STA	\$FB
4303 85 FF	STA	SEE	4430	AG 00	ΙDΔ	#0
4305 20 1D 43	ISB	BEI ONE	4430	85 FD	STA	\$FD
4200 AO 40	LDA	#\$40	4424	20 10 42	ICD	DELONE
4000 M3 40	CTA	## #	4404	20 10 40	JOH	HELUIVE HEAD
439A 85 FD 439C A9 40	SIA	PPD #D40	4437	A9 40	CTA	## 9 40
439U A9 4U	LUA	#\$ 4 U	4439	92 LD	SIA	カト ロ
439E 85 FD	SIA	ֆ FD	443B	A9 3F	LUA	#\$31
43A0 A9 39 43A2 85 FE 43A4 20 10 43	LUA	#\$39	443D	85 FE	SIA	\$FE
43A2 85 FE	SIA	\$FE	4431	20 10 43	JSK	RELONE
43A4 20 10 43	JSR	RELONE	4442	A9 08	LDA	#8
43A7 A9 00	LDA	#0	4444	85 FB	STA	\$FB
4393 85 FE 4395 20 10 43 4398 A9 48 4390 85 FD 4390 A9 40 4390 85 FD 43A0 A9 39 43A0 A9 39 43A4 20 10 43 43A7 A9 00 43A9 85 FD 43AB A9 3C 43AB A9 3C 43AB A9 3C 43AB A9 3C 43AB A9 3C 43AF 20 10 43 43B2 A9 88	STA	\$FD	4446	A9 4A	LDA	\$FE-ONE \$FE-ONE \$FE-SCB \$FD NE \$FD NE \$FD NE \$FE-SCB \$FE-SC
43AB A9 3C 43AD 85 FE 43AF 20 10 43	LDA	#\$3C	4448	85 FC	STA	\$FC
43AD 85 FE	STA	\$FE	444A	A9 C0	LDA	#\$C0
43AF 20 10 43	JSR	RELONE	444C	85 FD	STA	\$FD
43B2 A9 88	I DA	#\$88	444F	A9 3C	LDA	#\$3C
43B4 85 FB	STA	\$FB	4450	85 FF	STA JSR	#\$3C \$FE
43B6 A9 40	IDA	#\$40	4452	20 10 43	JSR	RELONE
43B8 85 FD	STA	\$FD	4455	A9 80	IDA	#\$80
43B8 85 FD 43BA 20 10 43	JSR	RELONE	4457	85 FD	LDA STA	\$FD
43BA 20 10 43 43BD A9 00	I DA	#0	4450	85 FE 20 10 43 A9 80 85 FD A9 3F 85 FE 20 10 43	LDA	#\$3F
43BF 85 FD	CTA	\$ED	DANA	AS EE	STA	\$FE
43C1 A0 20	LDA	#630 ALD	4400	20 10 42	JSR	RELONE
43C1 A9 39 43C3 85 FE	LUA	## #	4400	AO 40	JOR	HELUIVE HØ40
43C1 A9 39 43C3 85 FE 43C5 20 10 43	SIA	DEL ONE	4460	A9 48 85 FB	LDA	#\$48
4305 20 10 43	JSR	HELUNE	4462	90 CC	STA	\$FB
43C8 A9 C8	LDA	#\$08	4464	A9 CO	LDA	#\$C0
43CA 85 FB	STA	\$FB	4466	85 FD 20 10 43	STA	\$FD
43CC A9 48	LDA	#\$48	4468	20 10 43	JSR	RELONE
43CE 85 FC	STA	\$FC	446B	A9 80	LDA	#\$80
43D0 A9 40	LDA	#\$40	43D2 43D4 43D8 43D8 43DB 43DF 43E2 43E4 43E6 43E6 43E7 43F7 43F3 43F3 43F3 43F3 44F0 4400 4402 4404 4407 4409 4408 4408 4408 4409 4408 4408 4408	85 FD	STA	\$FD

446E AO 30	LDA	##3C	. data	for all the different enrite		
446F A9 3C 4471 85 FE	LDA Sta	#\$3C \$FE		for all the different sprite es used in the game.		
4473 20 10 43	JSR	RELONE	; 51.40	os assa in ale game.		
; set up sid chip for sounds			4500	8E 08 9F	.BYT	142,8,159,0,32,69,6
4476 A9 OF	LDA	#\$0F				5,71,76,69,83
4478 8D 05 D4	STA	\$D405	450B	20 26 20	.BYT	32,38,32,71,65,84,7
447B 8D 0C D4	STA	\$D40C \$D413	4E40	75 00 00	DVT	9,82,83,32,146
447E 8D 13 D4 4481 A9 F0	sta LDA	\$D413 #\$F0	4516	7E 00 00	.BYT	126,0,0,0,0,0,0,0,0,0 ,0
4483 8D 06 D4	STA	\$D406	4521	00 00 00	.BYT	0,0,0,0,0,159,87,65,
4486 8D 0D D4	STA	\$D40D	1021	00 00 00	.5	78,84,32
4489 8D 14 D4	STA	\$D414	452C	49 4E 53	.BYT	73,78,83,84,82,85,6
448C A9 3F	LDA	#\$3F				7,84,73,79,78
448E 8D 00 D4	STA	\$D400	4537	53 20 3F	.BYT	83,32,63,126,80,82,
4491 A9 18	LDA	#\$18				69,83,83,32,18
4493 8D 01 D4	STA	\$D401	4542	59 92 20	.BYT	89,146,32,79,82,32,
4496 A9 42 4498 8D 07 D4	LDA STA	#\$42 \$D407	454D	50 49 43	.BYT	18,78,146,126,144 80,73,67,75,32,83,7
449B A9 06	LDA	#6	טויטר	00 10 10	.011	5,73,76,76,32
449D 8D 08 D4	STA	\$D408	4558	4C 45 56	.BYT	76,69,86,69,76,126,
44A0 A9 OC	LDA	#\$0C				76,69,86,69,76,126, 40,32,49,32,99
44A2 8D 0E D4	STA	\$D40E	4563	20 39 20	.BYT	32,57,32,41,126,158
44A5 A9 06	LDA	#6	4505	00 40 54	20.0	,80,82,69,83,83
44A7 8D 0F D4 44AA A9 15	STA	\$D40F	456E	20 12 51	.BYT	32,18,81,146,32,32, 84,79,32,81,85
44AC 8D 04 D4	LDA Sta	#\$15 \$D404	4579	49 54 7E	.BYT	73,84,126,144,18,11
44AF 8D 0B D4	STA	\$D404 \$D40B	4013	49 04 16	.511	9,17,157,32,17,157
44B2 8D 12 D4	STA	\$D412	4584	9D 00 00	.BYT	157,0,0,32,32,32,14
44B5 A9 3F	LDA	#\$3F				6,99,105,17,157
44B7 8D 18 D4	STA	\$D418	458F	7B 91 91	.BYT	123.145.145.80.76.8
44BA A9 F7	LDA	#\$F7_				5,71,32,74,79,89
44BC 8D 17 D4	STA	\$D417	459A	53 54 49	.BYT	83,84,73,67,75,83,3
44BF A9 22	LDA	#\$22	45A5	44 44 7D	DVT	2,73,78,46,46
44C1 8D 16 D4 44C4 A9 0F	sta LDA	\$D416 #\$0F	40A0	11 11 7B	.BYT	17,17,123,145,157,1 17,99,99,99,99,18
44C6 8D 15 D4	STA	\$D415	45B0	20 20 20	.BYT	32,32,32,145,157,15
4409 60	RTS	QD-110	1000	20 20 20	.5	7,32,145,157,105,1
;						41
-			45BB	11 11 11	.BYT	17,17,17,0,32,18,80,
; manage sound effects for title			4500	00.00.40	~~	79,82,84,32
, , , , , , , , ,		#000F	45C6	32 20 46	.BYT	50,32,70,79,82,32,6
44CA AD 3E 03 SNDTIT 44CD C9 2F	LDA CMP	\$033E #\$2F	45D1	53 92 20	.BYT	9,65,71,76,69 83.146.32.32,32.18.
44CF F0 04	BEQ	SNDT12	1001	30 32 20	.011	80,79,82,84,32
44D1 EE 3E 03	INC	\$033E	45DC	31 20 46	.BYT	49,32,70,79,82,32,7
44D4 60	RTS	·				1,65,84,79,82
44D5 A9 00 SNDT12	LDA	#0	45E7	53 92 8D	.BYT	83,146,141,17,0,32,
44D7 8D 3E 03	STA	\$033E	4550	00 50 45	Вνσ	67,76,65,77,80
44DA EE 3F 03 44DD AD 3F 03	INC LDA	\$033F \$033F	45F2	20 59 4F	.BYT	32,89,79,85,82,32,6
44E0 8D 0E D4	STA	\$D40E	45FD	55 52 45	.BYT	7,82,69,65,84 85,82,69,83,32,84,7
44E3 CE 40 03	DEC	\$0340	701 0	00 0 <u>L</u> 40	.011	9,32,84,72,69
44E6 AD 40 03	LDA	\$0340	4608	20 42 4F	.BYT	32,66,79,82,68,69,8
44E9 8D 16 D4	STA	\$D416				2,32,66,89,141
44EC AD 3F 03	LDA	\$033F	4613	11 20 50	.BYT	17,32,80,82,69,83,8
44EF C9 35	CMP	#\$35 0NDT10	4045	10 10 10	D) CT	3,73,78,71,32
44F1 90 06 44F3 A9 18	BCC	SNDTI3	461E	12 46 49	.BYT	18,70,73,82,69,32,6
44F5 8D 01 D4	LDA STA	#\$18 \$D401	4629	4E 92 20	.BYT	6,85,84,84,79 78,146,32,87,72,69,
44F8 60	RTS	ψDTOI	7023	76 32 20	.511	78,32,84,72,69
44F9 AD 3F 03 SNDTI3	LDA	\$033F	4634	59 20 48	.BYT	89.32,72,73,84,32,7
44FC 8D 01 D4	STA	\$D401				3,84,105,17,157
44FF 60	RTS		463F	62 11 9D	.BYT	98,17,157,157,109,9
•						8,110,17,157,157,4
4500	*=	¢4500	AGAA	11 OD 7A	.BYT	Z 17 157 100 141 145
4500	_	\$4500	464A	11 9D 7A	.611	17,157,122,141,145, 145,32,66,79,82,68
; graphics data.			4655	45 52 20	.BYT	69,82,32,77,79,86,6
; the first part of this section						9,83,32,87,72
; contains data for the title,			4660	45 4E 20	.BYT	69,78,32,83,73,68,6
; instruction, and pick-skill-level	_		46	45.00.55	-· -	9,83,32,65,82
; screens, the second part conta	uns		466B	45 20 55	.BYT	69,32,85,78,69,81,8

			5,65,76,141,159				0.0
4676	11 11 20	.BYT	5,65,76,141,159 17,17,32,32,32,77,7 9,86,69,32,82	4802	18 00 00	.BYT	24,0,0,24,0,247,0,24 .0.0.60
4681	49 47 48	.BYT	73,71,72,84,32,79,8 2,32,76,69,70	480D	00 00 3C	.BYT	0,0,60,0,4,126,32,12 ,90,48,6
468C	54 20 54	.BYT	84,32,84,79,32,67,7 9,78,84,82,79	4818	FF 60 03	.BYT	255,96,3,255,192,0, 255,0,0,255,0
4697	4C 20 41	.BYT	76,32,65,141,17,32, 32,32,32,32,32	4823	00 FF 00	.BYT	0,255,0,3,255,192,6, 255,96,0,126
46A2	20 20 20	.BYT	32,32,32,68,73,70,7 0,69,82,69,78	482E	00 00 3E	.BYT	0,0,62,0,0,62,0,0,60,
46AD	54 20 43	.BYT	84,32,67,82,69,65,8 4,85,82,69,141	4839	3C 00 00	.BYT	60,0,0,60,0,0,60,0,0, 120,0
46B8	11 11 20	.BYT	17,17,32,32,5,87,73, 78,32,66,89	4844	01 E0 00	.BYT	1,224,0,0,0,48,0,0,1 20.0.0
46C3	20 50 55	.BYT	32,80,85,83,72,73,7 8,71,32,79,80	484F	7C 00 00	.BYT	124,0,0,252,32,4,18 2,112,12,255,192
46CE	50 4F 4E	.BYT	80,79,78,69,78,84,8 3,32,79,70,70	485A	06 FF 00	.BYT	6,255,0,3,255,0,0,25 4,0,3,255
46D9	20 53 43	.BYT	32,83,67,82,69,69,7 8,141,17,17,158	4865	00 06 FF	.BYT	0,6,255,0,0,127,192, 0,62,96,0
46E4	20 20 20	.BYT	32,32,32,32,32,18,8 0,82,69,83,83	4870	3E 00 00	.BYT	62,0,0,60,0,0,60,0,0, 60.0
46EF	20 46 49	.BYT	32,70,73,82,69,32,6 6,85,84,84,79	487B	00 38 00	.BYT	0,56,0,0,120,0,7,240 ,0,1,192
46FA	4E 20 54	.BYT	78,32,84,79,32,66,6 9,71,73,78,146	4886	00 FF 01	.BYT	0,255,1,192,0,3,240, 0,1,248,64
4705	00 00 00	.BYT	0,0,0,0,3,128,0,15,1 92,2,31	4891	01 EC 60	.BYT	1,236,96,1,190,192, 5,255,128,12,255
4710	80 06 37	.BYT	128,6,55,128,3,125, 128,1,255,160,0	489C	00 07 FE	.BYT	0,7,254,0,0,254,0,7, 254.0.6
471B	FF 30 00	.BYT	255,48,0,127,224,0, 127,0,0,127,224	48A7	FF 00 00	.BYT	255,0,0,127,128,0,1 24,192,0,124,96
4726	00 FF 60	.BYT	0,255,96,1,254,0,3,6 2,0,6,62	48B2	00 78 20	.BYT	0,120,32,0,56,0,0,12 0,0,16,112
4731	00 04 1E	.BYT	0,4,30,0,0,28,0,0,30, 0,0	48BD	00 0C F0	.BYT	0,12,240,0,7,192,0,1 ,128,0,0
473C	0E 08 00	.BYT	14,8,0,15,48,0,3,224 ,0,1,128	48C8 48D3	00 00 00 00 0E 00	.BYT .BYT	0,0,0,0,0,0,0,0,0,0,0 0,14,0,112,31,60,24
4747	00 00 0C	.BYT	0,0,12,0,0,30,0,0,62, 0.4	48DE	7E 7E FC	.BYT	8,127,255,254,126 126,126,252,153,63,
4752	3F 00 0E	.BYT	63,0,14,109,32,3,25 5,48,0,255,96				239,24,247,143,60,
475D	00 FF C0	.BYT	0,255,192,0,127,0,0, 255,192,0,255	48E9	C7 E7 E3	.BYT	199,231,227,7,195,2 24,3,195,192,7,231
4768	60 03 FE	.BYT	96,3,254,0,6,124,0,0 .124,0,0	48F4	EO 1E FF	.BYT	224,30,255,120,14,6 0,48,0,0,0,0
4773	3C 00 00	.BYT	60,0,0,60,0,0,60,0,0, 28,0	48FF	00 00 00	.BYT	0,0,0,0,0,0,0,0,255,0
477E	00 1E 00	.BYT	0,30,0,0,15,224,0,3, 128,255.0	490A	00 00 00	.BYT	0,0,0,0,0,0,0,0,0,0,3
4789	18 00 00	.BYT	24,0,0,60,0,0,60,0,4, 126,32	4915	00 78 7F	.BYT	0,120,127,189,254,2 55,255,255,222,126
4794	OC 5A 30	.BYT	12,90,48,6,255,96,3, 255,192,0,255	4920	8E DB 71	.BYT	,123 142,219,113,15,24,2
479F	00 00 FF	.BYT	0,0,255,0,0,255,0,3, 255,192,6	492B	E0 07 81	.BYT	40,3,24,192,7,255 224,7,129,224,7,195
47AA	FF 60 00	.BYT	255,96,0,126,0,0,12 4,0,0,124,0	4936	FF EO 3E	.BYT	,224,3,255,192,7 255,224,62,60,124,2
47B5	00 3C 00	.BYT	0,60,0,0,60,0,0,60,0, 0,60	4941	00 00 00	.BYT	8,0,56,0,0,0 0,0,0,0,0,0,255,0,0,0
47C0	00 00 1E	.BYT	0,0,30,0,0,7,128,0,0, 24,0	494C	00 00 00	.BYT	,0 0,0,0,0,0,48,0,12,25
47CB	00 3C 00	.BYT	0,60,0,0,60,0,4,126, 32,12,90	4957	FF 99 FF	.BYT	4,0,127 255,153,255,223,25
47D6	30 06 FF	.BYT	48,6,255,96,3,255,1 92,0,255,0,0				5,251,30,60,120,14, 255
47E1	FF 00 00	.BYT	255,0,0,255,0,3,255, 192,6,255,96	4962	70 07 18	.BYT	112,7,24,224,7,24,2 24,15,255,240,15
47EC	00 7E 00	.BYT	0,126,0,0,126,0,0,12 6,0,0,60	496D	18 FO 07	.BYT	24,240,7,129,224,7, 255,224,7,255,224
47F7	00 00 3C	.BYT	0,0,60,0,0,60,0,0,60,	4978	1E 7E 78	.BYT	30,126,120,62,0,124 ,32,0,4,0,0

4983	00 00 00	.BYT	0,0,0,0,0,0,0,0,0,0,0	4A97	00 00 00	CPY	MYRAS1
498E	00 00 00	.BYT	0,0,0,248,0,31,254,0	4A9A 4A9C	F0 01	BEQ	RASTA
4999	FE 3F DB	.BYT	,127,127,129 254,63,219,252,31,6		CA order and background colo	DEX rs	
1000			0,248,14,255,112,7	; accor	dingly, depending on which	i	
49A4	99 EO OF	.BYT	153,224,15,24,240,1	; zone	you're in (upper or lower).		04T00D 4 V
			5,255,240,14,126,1 12	4A9D 4AA0	00 FF FF RASTA 00 00 00	LDA STA	Gatscr - 1,X Backgr
49AF	07 18 E0	.BYT	7,24,224,3,195,192,	4AA3	00 00 00	STA	BORDER
			14,255,224,14,126	; set ra	aster for next compare.		
49BA	70 3E 00	.BYT	112,62,0,124,34,0,6		, this depends on where yo	ou	
49C5	00 00 FF	.BYT	8,0,0,0,0 0,0,255,0,0,0,192,0,	4AA6	urrently. 00 FF FF	LDA	MYRAS1 - 1,X
			3,224,0	4AA9	00 00 00	STA	RASTER
49D0	07 7C 00	.BYT	7,124,0,62,127,129,	4AAC	00 00 00	LDA	VICIRQ
49DB	DB F8 06	.BYT	254,63,129,252,31 219,248,6,255,96,3,	4AAF	00 00 00 x<>1 you're in the gator	STA	VICIRQ
.000	5510 00		60,192,7,153,224	4AB2	EO 01	CPX	#1
49E6	0E 18 70	.BYT	14,24,112,15,255,24	4AB4	D0 06	BNE	gatirq
49F1	E0 03 81	.BYT	0,12,255,48,7,60 224,3,129,192,3,255	; ni-no. 4AB6	, hi-ho, to eaglesville we go 20 C8 4A) JSR	EGLSTUF
701 1	20 00 01	.011	,192,15,126,240,24	4AB9	4C C2 4A	JMP	ENDIRQ
49FC	00 18 3E	.BYT	0,24,62,0,124,50,0,7	;			
4407	00.00.00	.BYT	6,0,0,0	4ABC	20 59 4B GATIRQ	JSR	GTRSTUF
4A07	00 CO 00	.011	0,192,0,3,192,0,3,11 2,0,14,126	4ABF	00 00 00 his interrupt	JSR	UDTIM
4A12	00 7E 3F	.BYT	0.126.63.129.252.31	4AC2	68 ENDIRQ	PLA	
			,129,248,31,195,24	4AC3	A8	TAY	
4A1D	06 FF 60	.BYT	6,255,96,3,126,192,	4AC4 4AC5	68 AA	PLA TAX	
טואד	00 11 00		7,153,224,14,24	4AC6	68	PLA	
4A28	70 OF DB	.BYT	112,15,219,240,12,2	4AC7	40	RTI	
4A33	81 CO 03	.BYT	55,48,6,60,96,3 129,192,3,255,192,1	:			
4/100	01 00 03	ווט.	4,126,224,28,0,56	; we're	above screen split.		
4A3E	3F 00 FC	.BYT	63,0,252,49,0,140,4	trans	fer eagle shadow registers		
4440	00 20 20	DVT	8,0,12,255,28	; into s	sprite control registers.		
4A49	00 38 30	.BYT	0,56,48,0,12,56,0,28 ,62,0,124	; 4AC8	AD 7A 03 EGLSTUF	LDA	\$037A
4A54	3F 81 FC	.BYT	63,129,252,31,195,2	4ACB	8D 01 D0	STA	\$D001
			48,15,195,240,6,25	4ACE	AD 7B 03	LDA	\$037B
4A5F	60 03 7E	.BYT	96,3,126,192,7,189,	4AD1 4AD4	8D 03 D0 AD 7C 03	sta Lda	\$D003 \$037C
			224,14,24,112,11	4AD7	8D 05 D0	STA	\$D005
4A6A	DB DO OC	.BYT	219,208,12,255,48,6	4ADA	AD 7D 03	LDA	\$037D
4A75	03 FF C0	.BYT	,60,96,3,129,192 3,255,192,7,126,224	4ADD 4AE0	8D 07 D0 AD 7E 03	STA LDA	\$D007 \$037E
7/1/0	00 11 00	.011	,28,0,56,62,0	4AE3	8D 09 D0	STA	\$D009
4A80	7C 33 00	.BYT	124,51,0,204,24,0,2	4AE6	AD 7F 03	LDA	\$037F
			4,0,15,150,0,3	4AE9 4AEC	8D 0B D0 AD 80 03	STA LDA	\$D00B \$0380
:				4AEC 4AEF	8D 0D D0	STA	\$D00D
4A8C		*=	\$4A8C	4AF2	AD 81 03	LDA	\$0381
; thin	postion contains all of the			4AF5	8D 0F D0	STA	\$D00F \$0341
	section contains all of the game routines.			4AF8 4AFB	AD 41 03 8D F8 07	LDA STA	\$07F8
;	game recurred.			4AFE	AD 42 03	LDA	\$0342
;				4B01	8D F9 07	STA	\$07F9
	upt handler. code is initialized in the			4B04 4B07	AD 43 03 8D FA 07	LDA STA	\$0343 \$07FA
	ne insint, which sets up			4B0A	AD 44 03	LDA	\$0344
	plit-screen machinery.			4B0D	8D FB 07	STA	\$07FB
; 4A8C	00 00 00	LDY	RASTER	4B10 4B13	AD 45 03 8D FC 07	LDA STA	\$0345 \$07FC
4A8F	A2 02	LDX	#2	4B16	AD 46 03	LDA	\$0346
	pare raster position to			4B19	8D FD 07	STA	\$07FD
; scree	en split point 00 00 00	CPY	MYRAS1	4B1C 4B1F	AD 47 03 8D FE 07	LDA STA	\$0347 \$07FE
4A94	F0 07	BEQ	RASTA	4B22	AD 48 03	LDA	\$0348
	a bit to minimize jitter			4B25	8D FF 07	STA	\$07FF
4A96	88	DEY		4B28	AD 49 03	LDA	\$0349

4B2B	8D 27 D0	STA	\$D027	;			
4B2E	AD 4A 03	LDA	\$034A	; clear	sid chip and set it up		
4B31	8D 28 D0	STA	\$D028	; for n	nain game sound effects.		
4B34	AD 4B 03	LDA	\$034B	;			
4B37	8D 29 D0	STA	\$D029	4BEA	SETSID	=	*
4B3A	AD 4C 03	LDA	\$034C	4BEA	A0 00	LDY	#0
4B3D	8D 2A D0	STA	\$D02A	4BEC	A9 00	LDA	#0
4B40 4B43	AD 4D 03 8D 2B D0	LDA	\$034D	4BEE	85 FB	STA	\$FB
4B46	AD 4E 03	STA LDA	\$D02B	4BF0	A9 D4	LDA	#\$D4
4B49	8D 2C D0	STA	\$034E \$D02C	4BF2 4BF4	85 FC A9 00 SIDZERO	STA	\$FC
4B4C	AD 4F 03	LDA	\$034F	4BF6	A9 00 SIDZERO 91 FB	LDA STA	#0 (\$ED) \
4B4F	8D 2D D0	STA	\$D02D ′	4BF8	CO OF	CPY	(\$FB),Y #\$0F
4B52	AD 50 03	LDA	\$0350	4BFA	F0 04	BEQ	SIDDUN
4B55	8D 2E D0	STA	\$D02E	4RFC	C8	INY	SIDDON
4B58	60	RTS	4	4BFD 4C00	4C F4 4B	JMP	SIDZERO
;				4C00	A9 OF SIDDUN	LDA	#\$0F
;				4C02	8D 18 D4	STA	\$D418
	below screen split.			4005	A9 00	LDA	#0
	fer gator shadow registers			4C07	8D 17 D4	STA	\$D417
; into s	sprite control registers.			4COA	A9 60	LDA	#\$60
,	4D 70 00 0TD0THE		40070	4COC	8D 05 D4	STA	\$D405
4B59	AD 72 03 GTRSTUF	LDA	\$0372	4COF	A9 19	LDA	#\$19
4B5C 4B5F	8D 01 D0	STA	\$D001	4C11	8D 13 D4	STA	\$D413
4B62	AD 73 03 8D 03 D0	LDA STA	\$0373 \$D003	4C14 4C16	A9 0F 8D 00 D4	LDA	#\$0F
4B65	AD 74 03	LDA	\$0374	4C19	8D 07 D4	STA STA	\$D400
4B68	8D 05 D0	STA	\$D005	4C1C	8D 0E D4	STA	\$D407 \$D40E
4B6B	AD 75 03	LDA	\$0375	4C1F	A9 OF	LDA	#\$0F
4B6E	8D 07 D0	STA	\$D007	4C21	8D 01 D4	STA	\$D401
4B71	AD 76 03	LDA	\$0376	4C24	A9 4F	LDA	#\$4F
4B74	8D 09 D0	STA	\$D009	4C26	8D 08 D4	STA	\$D408
4B77	AD 77 03	LDA	\$0377	4C29	A9 4F	LDA	#\$4F
4B7A	8D 0B D0	STA	\$D00B	4C2B	8D OF D4	STA	\$D40F
4B7D	AD 78 03	LDA	\$0378	4C2E	A9 00	LDA	#0
4B80 4B83	8D 0D D0 AD 79 03	STA	\$D00D	4C30	8D 04 D4	STA	\$D404
4B86	8D 0F D0	LDA STA	\$0379 \$D00F	4C33 4C35	A9 00 8D 0B D4	LDA STA	#0 \$D40B
4B89	AD 51 03	LDA	\$0351	4C38	A9 00	LDA	#0
4B8C	8D F8 07	STA	\$07F8	4C3A	8D 12 D4	STA	\$D412
4B8F	AD 52 03	LDA	\$0352	4C3D	A9 00	LDA	#0
4B92	8D F9 07	STA	\$07F9	4C3F	8D 06 D4	STA	\$D406
4B95	AD 53 03	LDA	\$0353	4C42	8D 0D D4	STA	\$D40D
4B98	8D FA 07	STA	\$07FA	4C45	8D 14 D4	STA	\$D414
4B9B	AD 54 03	LDA	\$0354 \$0358	4C48	A9 60	LDA	#\$60
4B9E 4BA1	8D FB 07 AD 55 03	STA LDA	\$07FB \$0355	4C4A 4C4D	8D 0C D4	STA	\$D40C
4BA4	8D FC 07	STA	\$07FC	4040	60	RTS	
4BA7	AD 56 03	LDA	\$0356	:			
4BAA	8D FD 07	STA	\$07FD	: soun	d effects, called at various		
4BAD	AD 57 03	LDA	\$0357		s in joystick rtn scnjoy.		
4BB0	8D FE 07	STA	\$07FE	;			
4BB3	AD 58 03	LDA	\$0358	4C4E	A9 60 SOUND1	LDA	#\$60
4BB6	8D FF 07	STA	\$07FF	4C50	8D 05 D4	STA	\$D405
4BB9 4BBC	AD 59 03 8D 27 D0 AD 5A 03 8D 28 D0 AD 5B 03	LDA	\$0359 \$0027	4C53	00 00 00	LDA	MYRAS2
4BBF	AD 54 02	STA LDA	\$D027 \$035A	4C56 4C57	4A 4A	LSR LSR	A A
4BC2	AD 3A 03	STA	\$D028	4C58	4A	LSR	A
4BC5	AD 5B 03	LDA	\$035B	4C59	85 FB	STA	\$FB
4BC8	8D 29 D0	STA	\$D029	4C5B	A9 24	LDA	#\$24
4BCB	8D 29 D0 AD 5C 03	LDA	\$035C	4C5D	E5 FB	SBC	\$FB
4BCE	8D 2A D0	STA	\$D02A	4C5F	8D 01 D4	STA	\$D401
4BD1	AD 5D 03	LDA	\$035D	4C62	A9 60	LDA	#\$60
4BD4	8D 2B D0	STA	\$D02B	4064	8D 05 D4	STA	\$D405
4BD7	AD 5E 03	LDA	\$035E	4067	A9 20	LDA	#\$20
4BDA	8D 2C D0	STA	\$D02C	4069	8D 04 D4	STA	\$D404
4BDD 4BE0	AD 5F 03 8D 2D D0	LDA STA	\$035F \$D02D	4C6C 4C6E	A9 21 8D 04 D4	LDA STA	#\$21 \$D404
4BE3	AD 60 03	LDA	\$0360	4C71	60	RTS	φυτυτ
4BE6	8D 2E D0	STA	\$D02E	:		0	
4BE9	60	RTS		4C72	A9 60 SOUND2	LDA	#\$60
;				4C74	8D 0C D4	STA	\$D40C

4077 00 00 00	LDA	MYRAS2	4CF3 A9 E0	LDA	#\$E0
4C7A 4A	LSR	A	4CF5 8D 0F D4	STA	\$D40F
4C7B 4A	LSR	Â	4CF8 A9 85	LDA	#\$85
4C7C 4A	LSR	Ä	4CFA 8D 12 D4	STA	\$D412
4C7D 8D 08 D4	STA	\$D408	4CFD A9 00	LDA	#0
4C80 A9 80	LDA	#\$80	4CFF 00 00 00	STA	GATSCR
4C82 8D 0B D4	STA	\$D40B	4D02 60	RTS	
4C85 A9 81	LDA	#\$81	:		
4C87 8D 0B D4	STA	\$D40B	<u></u>		
4C8A 60	RTS	*-	a gator has clamped on the bord	ler.	
;			;		
4C8B A9 2A SOUND3	LDA	#\$2A	4D03 GATCLAMP	=	*
4C8D 8D 3C 03	STA	\$033C	;		
4C90 A9 10	LDA	#\$10	; turn eagles' background		
4C92 8D 12 D4	STA	\$D412	; orange, make a sound effect,		
4C95 A9 15	LDA	#\$15	; make gators thrash with joy,		
4C97 8D 12 D4	STA	\$D412	; turn eagles screen green again.		
4C9A 60	RTS		, 4D03 A9 09	LDA	#9
4C9B A9 04 SOUND4	LDA	#4	4D05 00.00 00	STA	EAGSCR
4C9D 8D 3C 03	STA	\$033C	4D08 A5 FB	LDA	\$FB
4CAO A9 10	LDA	#\$10	4D0A 85 FD	STA	\$FD
4CA2 8D 12 D4	STA	\$D412	4D0C A5 FC	LDA	\$FC
4CA5 A9 15	LDA	#\$15	4D0E 85 FE	STA	\$FE
4CA7 8D 12 D4	STA	\$D412	4D10 98	TYA	
4CAA 60	RTS		4D11 8D 3D 03	STA	\$033D
;			4D14 A9 10	LDA	#\$10
;			4D16 8D 12 D4	STA	\$D412
; an eagle has clamped on the b	order		4D19 A9 15	LDA	#\$15
; ************************************		•	4D1B 8D 12 D4	STA	\$D412
4CAB EGLCLAMP	_	-	4D1E A2 18 4D20 A9 08	LDX LDA	#\$18 #8
turn apparent's background			4D22 8D 0F D4	STA	\$D40F
; turn opponent's background ; orange, make a sound effect,			4D25 20 75 4D GWIGMOR	JSR	GATWIGL
; make the eagles thrash with jo	v		4D28 8A	TXA	WHI WILL
; turn gators' screen black again			4D29 8D 3E 03	STA	\$033E
:	•		4D2C 0A	ASL	À
4CAB A9 09	LDA	#9	4D2D 0A	ASL	Α
4CAD 00 00 00	STA	GATSCR	4D2E EA	NOP	
4CBO A5 FB	LDA	\$FB	4D2F EA	NOP	
4CB2 85 FD	STA	\$FD	4D30 8D 08 D4	STA	\$D408
4CB4 A5 FC	LDA	\$FC	4D33 A0 12	LDY	#\$12
4CB6 85 FE	STA	\$FE	4D35 20 5B 4D	JSR	DELAY
4CB8 98	TYA	enaan	4D38 AD 3E 03 4D3B AA	LDA TAX	\$033E
4CB9 8D 3D 03 4CBC A9 10	STA LDA	\$033D #\$10	4D3B AA 4D3C CA	DEX	
4CBE 8D 12 D4	STA	\$D412	4D3D D0 E6	BNE	GWIGMOR
4CC1 A9 15	LDA	#\$15	4D3F AD 3D 03	LDA	\$033D
4CC3 8D 12 D4	STA	\$D412	4D42 A8	TAY	40002
4CC6 A2 1F	LDX	#\$1F	4D43 A5 FD	LDA	\$FD
4CC8 A9 00	LDA	#Ó	4D45 85 FB	STA	\$FB
4CCA 8D 0F D4	STA	\$D40F	4D47 A5 FE	LDA	\$FE
4CCD 20 97 4D EWIGMOR	JSR	EGLWIGL	4D49 85 FC	STA	\$FC
4CD0 8A	TXA	****	4D4B A9 E0	LDA	#\$E0
4CD1 8D 3E 03	STA	\$033E	4D4D 8D 0F D4	STA	\$D40F
4CD4 0A	ASL	A	4D50 A9 15	LDA	#\$15
4CD5 OA 4CD6 OA	ASL ASL	A A	4D52 8D 12 D4 4D55 A9 03	STA LDA	\$D412 #3
4CD7 OA	ASL	Â	4D57 00 00 00	STA	#3 EAGSCR
4CD8 8D 0F D4	STA	\$D40F	4D5A 60	RTS	LAGOON
4CDB A0 12	ĹĎŶ	#\$12	:		
4CDD 20 5B 4D	JSR	DELAY	does what the name implies		
4CEO AD 3E 03	LDA	\$033E	4D5B C0 00 DELAY	CPY	#0
4CE3 AA	TAX		4D5D F0 15	BEQ	DEL5
4CE4 CA	DEX		4D5F C0 01	CPY	#1
4CE5 D0 E6	BNE	EWIGMOR	4D61 D0 03	BNE	DEL1
4CE7 AD 3D 03	LDA	\$033D	4D63 4C 6F 4D	JMP	DEL3
4CEA A8	TAY	¢ED.	4D66 88 DEL1	DEY	4406
4CEB A5 FD	LDA	\$FD	4D67 A2 C6	LDX	#\$C6
4CED 85 FB 4CEF A5 FE	STA LDA	\$FB \$FE	4D69 CA DEL2 4D6A D0 FD	DEX BNE	DEL2
4CF1 85 FC	STA	\$FC	4D6C 88	DEY	DELE
	JIA	41 O	1000 00	521	

4D6D	DO EC		BNE	DELAY	4DD7	C9 00		CMP	#0
4D6F	A2 C3	DEL3	LDX	#\$C3	4DD9	DO 61	. •	BNE	ËCHKEXIT
4D71	CA	DEL4	DEX	400	4DDB	AO 00		LDY	#0
4D72	DO FD		BNE	DEL4	4DDD	B1 FB		LDA	(\$FB),Y
4D74	60	DEL5	RTS		4DDF	C9 00		CMP	#0
.:					4DE1	FO 43		BEQ	EPUTBAK
<u>;</u>					4DE3	A5 FB		LDA	\$FB
; cycle	all gator sp	prite shapes			4DE5	38		SEC	•
;		•			4DE6	E9 10		SBC	#\$10
4D75	A9 41	GATWIGL	LDA	#\$41	4DE8	85 FB		STA	\$FB
4D77	85 FB		STA	\$FB	4DEA	AO 00		LDY	#0
4D79	A9 03		LDA	#3	4DEC	B1 FB		LDA	(\$FB),Y
4D7B	85 FC		STA	\$FC	4DEE	18		CLC	(** = // -
4D7D	A0 00		LDY	#0	4DEF	69 19		ADC	#\$19
4D7F	B1 FB	GATWIG2	LDA	(\$FB),Y	4DF1	00 00 00	, .	CMP	MYRAS2
4D81	C9 F1		CMP	#\$F1	4DF4	BO 03		BCS	ECLAMPIT
4D83	FO 08		BEQ	GATWIG3	4DF6	4C 31 4E		JMP	EREPUT
4D85	18		CLC		4DF9	20 AB 40	ECLAMPIT	JSR	EGLCLAMP
4D86	69 01		ADC	#1	4DFC	00 00 00		LDA	MYRAS2
4D88	91 FB		STA	(\$FB),Y	4DFF	38		SEC	
4D8A	4C 91 4D)	JMP	GATWIG4	4E00	E9 17		SBC	#\$17
4D8D	A9 E4	GATWIG3	LDA	#\$E4	4E02	91 FB		STA	(\$FB),Y
4D8F	91 FB		STA	(\$FB),Y	4E04	A5 FB		LDA	\$FB
4D91	C8	GATWIG4	INY	(4. –71.	4E06	18		CLC	4.5
4D92	CO 08		CPY	#8	4E07	69 10		ADC	#\$10
4D94	DO E9		BNE	GATWIG2	4E09	85 FB		STA	\$FB
4D96	60		RTS		4E0B	A9 00		LDA	#0
:					4EOD	91 FB		STA	(\$FB),Y
					4E0F	A5 FB		LDA	\$FB
: cvcle	all eagle si	prite shapes			4E11	18		CLC	4.5
:					4E12	69 08		ADC	#8
4D97	A9 51	EGLWIGL	LDA	#\$51	4E14	85 FB		STA	\$FB
4D99	85 FB		STA	SFB	4E16	B1 FB		LDA	(\$FB),Y
4D9B	A9 03		LDA	#3	4E18	C9 00		CMP	#0
4D9D	85 FC		STA	SFC	4E1A	FO 03		BEQ	ËSTAT
4D9F	A0 00		ĹĎŶ	#0	4E1C	4C 3C 4E		JMP	ECHKEXIT
4DA1	B1 FB	EGLWIG2	LDA	(\$FB),Y	4E1F	A9 FF	ESTAT	LDA	#\$FF
4DA3	C9 FF		CMP	#\$FF	4E21	91 FB	201111	STA	(\$FB),Y
4DA5	FO 08		BEQ	EGLWIG3	4E23	4C 3C 4E	:	JMP	ECHKEXIT
4DA7	18		CLC	Lulinuo	4E26	A5 FB	EPUTBAK	LDA	\$FB
4DA8	69 01		ADC	#1	4E28	38	2. 0.0	SEC	4.5
4DAA	91 FB		STA	(\$FB),Y	4E29	E9 10		SBC	#\$10
4DAC	4C B3 4D)	JMP	ÈGLWIG4	4E2B	85 FB		STA	\$FB
4DAF	A9 F2	EGLWIG3	LDA	#\$F2	4E2D	A9 25		LDA	#\$25
4DB1	91 FB		STA	(\$FB),Y	4E2F	91 FB		STA	(\$FB),Y
4DB3	C8	EGLWIG4	INY	(4 j)	4E31	A5 FB	EREPUT	LDA	\$FB
4DB4	CO 08		CPY	#8	4E33	18		CLC	* ·· -
4DB6	DO E9		BNE	EGLWIG2	4E34	69 10		ADC	#\$10
4DB8	AO 08		LDY	#8	4E36	85 FB		STA	\$FB
4DBA		EGLWIG5	INC	\$033C	4E38	A9 01		LDA	#1
4DBD	AD 3C 03		LDA	\$033C	4E3A	91 FB		STA	(\$FB),Y
4DC0	8D OF D4	ļ	STA	\$D40F	4E3C	60	ECHKEXIT	RTS	,
4DC3	88		DEY		;			_	
4DC4	D0 F4		BNE	EGLWIG5	;—				
4DC6	60		RTS		4E3D		GBORCHEK	=	*
;						le gator bor	der stuff. come	here	
;							ssing gator fire I		
; eagle	border che	ck. come here					n clamping dista		
		eagle fire button	1.				ere you're alread		
; check	if you're in	n clamping dista	nce,				e's an eagle acro	SS	
; handl	e cases wh	ere you're alread	dy			order from			
		re there's a gato	r		;				
; acros	s the borde	r from you.			4E3D	AD 6E 03	1	LDA	\$036E
;					4E40	18		CLC	
4DC7		EBORCHEK	=	*	4E41	69 41		ADC	#\$41
4DC7	AD 6C 03		LDA	\$036C	4E43	85 FB		STA	\$FB
4DCA	18		CLC		4E45	AD 6F 03	1	LDA	\$036F
4DCB	69 29		ADC	#\$29	4E48	85 FC		STA	\$FC
4DCD	85 FB		STA	\$FB	4E4A	AD 6A 03		LDA	\$036A
4DCF	AD 6D 03		LDA	\$036D	4E4D	C9 00		CMP	#0
4DD2	85 FC		STA	\$FC	4E4F	DO 61		BNE	GCHKEXIT
4DD4	AD 67 03		LDA	\$0367	4E51	AO 00		LDY	#0

4E53 B1 FB	LDA	(\$FB),Y	4ED2	C9 59		CMP	#\$59
4E55 C9 00	CMP	#0	4ED4	FO OA		BEQ	EFLA2
4E57 F0 43	BEQ	GPUTBAK	4ED6	C6 FB		DEC	\$FB
4E59 A5 FB	LDA	\$FB	4ED8	A5 FB		LDA	\$FB
4E5B 38	SEC SBC		4EDA 4EDD	8D 6C 03		STA	\$036C
4E5C E9 10 4E5E 85 FB	SBC	#\$10	4EDD	4C 07 4F		JMP	EFLA5
4E5E 85 FB 4E60 A0 00	STA	\$FB	4EE0 4EE2 4EE4	A9 60	EFLA2	LDA	#\$60
4E62 B1 FB	LDY	#0 (\$FB),Y	4EEZ	85 FB 8D 6C 03		STA STA	\$FB \$036C
4E64 38	LDA SEC	(ψι υ), ι	4EE7	4C 07 4F		JMP	EFLA5
4E65 E9 08	SBC	#8	4EEA	AO OO	EFLA3	LDY	#0
4E67 00 00 00	SBC CMP	MYRAS2	4EEC	A9 00 91 FB		LDA	#0
4E6A 90 03	BCC	GCLAMPIT GREPUT	4EEE	91 FB		STA	(\$FB),Y \$FB
4E6C 4C A7 4E	BCC JMP CLAMPIT LDA CLC ADC STA JSR LDA CLC ADC	GREPUT	4EF0	A5 FB C9 60 F0 0A E6 FB A5 FB 8D 6C 03 4C 07 4F		LDA	\$FB
4E6F 00 00 00 G	CLAMPIT LDA	MYRAS2	4EF2	C9 60		CMP	#\$60 EFLA4
4E72 18	CLC		4EF4	FO OA		BEQ	EFLA4
4E73 69 05 4E75 91 FB	AUG	#5 (\$ED) V	4EF6 4EF8 4EFA 4EFD 4F00 4F02	FO LR		INC	\$FB
4E75 91 FB 4E77 20 03 4D	SIA ISD	(\$FB),Y GATCLAMP	4EFA	NO EC US		LDA Sta	\$FB \$036C
4E7A A5 FB	I DA	\$FB	4FFD	4C 07 4F		JMP	FFI A5
4E7C 18	ČĽĆ	Ψισ	4F00			LDA	EFLA5 #\$59 \$FB
4E7D 69 10	ADC	#\$10	4F02	85 FB		STA	\$FB
4E/F 00 FB	STA	\$FB	4004	8D 6C 03		STA	\$036C
4E81 A9 00	STA LDA STA LDA	#0	4F07	85 FB 8D 6C 03 AD 70 03	EFLA5	LDA	\$0370
4E83 91 FB	STA	(\$FB),Y \$FB	4F0A	C9 11		CMP	#\$11
4E85 A5 FB	LDA	\$FB	4F0C	DO 05		BNE	EFLA6
4E87 38 4E88 E9 08	SEC SBC	#8	4F0E	A9 0C		LDA STA	#\$0C \$0370
4E8A 85 FB	STA	\$FB	4F10 4F13 4F16 4F19	8D 70 03 EE 70 03 AD 70 03 91 FB	EEI AG	INC	\$0370 \$0370
4E8C B1 FB	IDA	(\$FB),Y	4F16	AD 70 03	EFLAU	LDA	\$0370
4E8E C9 00	LDA CMP	#0	4F19	91 FB		STA	(\$FB),Y
4F90 F0 03	BEQ JMP	GSTAT	; do sa	me for gato	ors		(4/,.
4E92 4C B2 4E	JMP	GCHKEXIT	4F1B	AD 6E 03		LDA	\$036E
4E95 A9 01 G	STAT LDA	#1	4F1E	85 FB		STA	\$FB
4E97 91 FB	STA JMP	(\$FB),Y	4F20	AD 6E 03 85 FB AD 6F 03 85 FC AD 64 03		LDA	\$036F
4E99 4C B2 4E	JIMP	GCHKEXIT	4F23	85 FC		STA	\$FC
4E9C A5 FB GI 4E9E 38	PUTBAK LDA SEC	\$FB	4F25 4F28	AD 64 03 C9 FF		LDA CMP	\$0364 #\$FF
4E9F E9 10	SBC	#\$10	4F2A	FO 06		BEQ	#arr GFLA1
4EA1 85 FB	STA	\$FB	4F2C	CQ 01		CMP	#1
4EA3 A9 F7	ĹĎÁ	#\$F7	4F2F	FO 22		BEQ	GFLA3
4EA5 91 FB	STA	(\$FB),Y \$FB	4F30	D0 3D		BNE	GFLA5
4EA7 A5 FB GI	REPUT I DA	\$FB	4F32	FO 22 DO 3D AO 00	GFLA1	LDY	#0
4EA9 18	CLC ADC STA		4F34	AY UU		LDA	#\$0D
4EAA 69 10	ADC	# \$ 10	4F36	91 FB A5 FB		STA	(\$FB),Y \$FB
4EAC 85 FB 4EAE A9 FF	SIA LDA	\$FB	4F38	A5 FB		LDA	\$FB
4EBO 91 FB	STA	#\$FF (\$FB),Y	4F3A	C9 49 F0 0A		CMP BEQ	#\$49 GFLA2
	CHKEXIT RTS	(φι υ), τ	4F3E	C6 FB		DEC	\$FB
:	JIIILEAN INO		4F40	A5 FB		LDA	\$FB
<u>;</u>			4F42	8D 6E 03		STA	\$036E
; control creature cold			4F45	4C 6F 4F		JMP	GFLA5
; make the creature c			4F48	A9 50	GFLA2	LDA	#\$50
; under control of the	joystick		4F4A	85 FB		STA	\$FB \$036E
; flash colors.			4540	8D 6E 03		STA JMP	\$036E
, 4EB3 FL	ASHIT =	•	4F4F	4C 6F 4F	GFLA3	LDY	GFLA5 #0
; do eagles first			4F54	AU 00	GFLAG	LDA	#\$0D
4EB3 AD 6C 03	LDA	\$036C	4F56	91 FB		STA	(\$FR) Y
4EB6 85 FB	STA	\$FB	4F58	A0 00 A9 0D 91 FB A5 FB		LDA	(\$FB),Y \$FB
4EB8 AD 6D 03	LDA	\$036D	4F5A	C9 50		CMP	#\$50
4EBB 85 FC	STA	\$FC	4F32 4F33 4F34 4F34 4F34 4F34 4F34 4F34	C9 50 FO OA		BEQ	GFLA4
4EBD A0 00	LDY	#0	4F5E	E6 FB		INC	\$FB
4EBF AD 65 03	LDA	\$0365 ##	4F60	A5 FB 8D 6E 03		LDA	\$FB
4EC2 C9 FF 4EC4 F0 06	CMP BEQ	#\$FF EFLA1	4F62	AC BE AF		STA	\$036E GFLA5
4EC6 C9 01	CMP	#1	4F6R	4C 6F 4F A9 49	GFLA4	JMP LDA	#\$49
4EC8 FO 20	CMP BEQ	EFLA3	4F6A	85 FB	GI EFFT	STA	\$FB
4ECA DO 3B	BNE	EFLA5	4F6C	85 FB 8D 6E 03		STA	\$036E
4ECC A9 00 EF	LA1 LDA	#0	4F6F	AD 71 03	GFLA5	LDA	\$0371
4ECE 91 FB	STA	(\$FB),Y \$FB	4F72	C9 09		CMP	#9
4EDO A5 FB	LDA	\$FB	4F74	D0 05		BNE	GFLA6

4F76 A9 03	LDA	#3	4FFD 38	SEC	
4F78 8D 71 03	STA	\$0371	4FFE E9 41	SBC	#\$41
4F7B EE 71 03 GFLA6	INC	\$0371	5000 85 FB	STA	\$FB
4F7E AD 71 03	LDA	\$0371	5002 A9 0D	LDA	#\$0D
4F81 91 FB 4F83 AD A8 03	STA	(\$FB),Y	5004 91 FB	STA	(\$FB),Y
4F86 F0 04	LDA BEQ	\$03Å8 ECOL	5006 A5 FB 5008 18	LDA CLC	\$FB
4F88 CE A8 03	DEC	\$03A8	5009 69 41	ADC	#\$41
4F8B 60	RTS	φυσησ	500B 85 FB	STA	\$FB
; color eagles black if moving			500D 4C F2 4F	JMP	GCOL2
or blue if clamped to border.			1000	•	
4F8C A9 03 ECOL	LDA	#3	;		
4F8E 8D A8 03	STA	\$03A8	; move eagles up or down betwe	en	
4F91 A9 82	LDA	#\$82	; screen split and top of screen.		
4F93 85 FB	STA	\$FB			
4F95 A9 03 4F97 85 FC	LDA	#3	5010 EGLMOVE		" *
4F97 85 FC 4F99 A0 00	STA LDY	\$FC #0	5010 A9 82 5012 85 FB	LDA STA	#\$82 \$FB
4F9B B1 FB ECOL1	LDA	#0 (\$FB),Y	5012 65 FB 5014 A9 03	LDA	фгв #3
4F9D C9 00	CMP	#0	5014 AS 60 5016 85 FC	STA	\$FC
4F9F D0 1A	BNE	ECOL3	5018 A9 72	LDA	#\$72
4FA1 A5 FB	LDA	\$FB	501A 85 FD	STA	\$FD
4FA3 38	SEC	•	501C A9 03	LDA	#3
4FA4 E9 29	SBC	#\$29	501E 85 FE	STA	\$FE
4FA6 85 FB	STA	\$FB	; do all 8 eagles		
4FA8 A9 06	LDA	#6	5020 A0 00	LDY	#0
4FAA 91 FB	STA	(\$FB),Y	; check eagle's direction		******
4FAC A5 FB	LDA	\$FB	5022 B1 FB EUDCHK	LDA	(\$FB),Y
4FAE 18 4FAF 69 29	CLC ADC	#\$29	; is it moving down 5024 C9 FF	CMP	#SFF
4FB1 85 FB	STA	###29 \$FB	5024 C9 FF 5026 F0 06	BEQ	##PFF EMVDN
4FB3 CO 07 ECOL2	CPY	#7		DLU	LIVIADIA
4FB5 FO 19	BEQ	GCOL	; is it moving up 5028 C9 01	CMP	#1
4FB7 C8	INY		502A FO 26	BEQ	ËMVUP
4FB8 4C 9B 4F	JMP	ECOL1	; guess it's clamped- next one 502C D0 1B		
4FBB A5 FB ECOL3	LDA	\$FB	502C D0 1B	BNE	EMVALL
4FBD 38	SEC		502E B1 FD EMVDN	LDA	(\$FD),Y
4FBE E9 29	SBC	#\$29	5030 18	CLC	
4FC0 85 FB	STA	\$FB	5031 69 17	ADC	#\$17
4FC2 A9 00 4FC4 91 FB	LDA	#0	; will eagle hit lower border of		
4FC6 A5 FB	STA LDA	(\$FB),Y \$FB	; its zone if it moves down 5033 00 00 00	CMP	MYRAS2
4FC8 18	CLC	ψi D	5036 B0 0A	BCS	EDNHIT
4FC9 69 29	ADC	#\$29	; ok to move. add one to vertical	500	LDIVINI
4FCB 85 FB	STA	SFB	; position for this eagle		
4FCD 4C B3 4F	JMP	ÉCOL2	5038 B1 FD	LDA	(\$FD),Y
; color gators light green if mo	ving		503A 18	CLC	. ,
; or white if clamped to border			503B 69 01	ADC	#1
4FDO A9 8A GCOL	LDA	#\$8A	503D 91 FD	STA	(\$FD),Y
4FD2 85 FB	STA	\$FB	503F 4C 49 50	JMP	ĖMVALL
4FD4 A9 03	LDA	#3	; hit border, make sound effect	ICD	EBRDSND
4FD6 85 FC 4FD8 A0 00	STA LDY	\$FC #0	5042 20 C2 50 EDNHIT ; reverse direction flag. 1=up	JSR	EDUDOND
4FDA B1 FB GCOL1	LDA	(\$FB),Y	5045 A9 01	LDA	#1
4FDC C9 00	CMP	#0	5047 91 FB	STA	(\$FB),Y
4FDE DO 1B	BNE	GCOL3	5049 CO 07 EMVALL	CPY	#7
4FEO A5 FB	LDA	SFB	504B F0 04	BEQ	EMVOUT
4FE2 38	SEC	•	504D C8	INY	
4FE3 E9 41	SBC	#\$41	504E 4C 22 50	JMP	EUDCHK
4FE5 85 FB	STA	\$FB	5051 60 EMVOUT	RTS	
4FE7 A9 01	LDA	#1	; eagle is moving up. check uppe	r	
4FE9 91 FB 4FEB A5 FB	STA LDA	(\$FB),Y \$FB	; boundary		(RED) V
4FED 18	CLC	φι υ	5052 B1 FD EMVUP 5054 C9 1E	LDA CMP	(\$FD),Y #\$1E
4FEE 69 41	ADC	#\$41	5054 C9 IE 5056 90 0A	BCC	EUPHIT
4FF0 85 FB	STA	\$FB	; ok to move up one pixel.	200	20, 1111
4FF2 C0 07 GCOL2	CPY	#7	5058 B1 FD	LDA	(\$FD),Y
4FF4 F0 04	BEQ	GCOLOUT	505A 38	SEC	
4FF6 C8	INY		505B E9 01	SBC	#1
4FF7 4C DA 4F	JMP	GCOL1	505D 91 FD	STA	(\$FD),Y
4FFA 60 GCOLOUT	RTS	¢ CD	505F 4C 49 50	JMP	ÈMVÀLL
4FFB A5 FB GCOL3	LDA	\$FB	; hit upper border, reverse directi	UN	

		EUPHIT	LDA	#\$FF	<u>.</u>				
	91 FB		STA	(\$FB),Y	50C2 50C4	A9 10 8D 0C D4	EBRDSND	LDA STA	#\$10 \$D40C
5066 4	4C 49 50		JMP	EMVALL	50C7	A9 45		LDA	#\$45
; 					50C9	8D 08 D4			\$D408
		r down betweer			50CC	A9 80		LDA	#\$80
; screen	split and b	ottom of screer	1		50CE	8D 0B D4			\$D40B
;		CATRACT.		•	50D1	A9 81		LDA STA	#\$81
5069 5069 /	A9 8A	GATMOVE	LDA	#\$8A	50D3 50D6	8D 0B D4 60		RTS	\$D40B
	85 FB		STA	\$FB	:	•		1110	
506D /	A9 03		LDA	#3	;—				
506F 8	85 FC		STA	\$FC	; sound	l of gator hi	tting border		
	A9 7A		LDA	#\$7A	; 50D7	AO 04	GBRDSND	LDA	#\$24
	85 FD A9 03		STA LDA	\$FD #3	50D7	A9 24 8D 05 D4	GDNDOND	STA	\$D405
	85 FE		STA	\$FE	50DC	A9 2F		LDA	#\$2F
	eight gators	3			50DE	8D 01 D4		STA	\$D401
	AÖ 00		LDY	#0	50E1	A9 10		LDA	#\$10
	gator's dire		LDA	(PED) V	50E3 50E6	8D 04 D4 A9 11		STA LDA	\$D404 #\$11
	B1 FB oving dowr	GUDCHK	LDA	(\$FB),Y	50E8	8D 04 D4		STA	\$D404
	C9 FF	'	CMP	#\$FF	50EB	60		RTS	ΨΕΤΟΤ
	FO 06		BEQ	GMVDN	;				
; is it mo	oving up				;—				
	C9 01 F0 1F		CMP	#1 GMVUP		both joysticl			
5083 1 ; it's clar			BEQ	GIVIVOP			on values, and lated sound effe	cts	
	DÓ 14		BNE	GMVALL	50EC	00 00 00		LDA	J0Y1
; will gat	or hit botte	om of screen			50EF	AO 00		LDY	#0
	oves down			(AFD) 14	50F1	A2 00		LDX	#0
	B1 FD C9 FB	GMVDN	LDA CMP	(\$FD),Y #\$FB	50F3 50F4	4A B0 01		LSR BCS	A SCNJO2
	BO OA		BCS	GDNHIT	50F6	88		DEY	3014302
		. add one to ve		Colum	50F7	4A	SCNJ02	LSR	Α
; position	n for this g				50F8	B0 01		BCS ¹	SCNJ03
	B1 FD		LDA	(\$FD),Y	50FA	C8		INY	
	18 69 01		CLC ADC	#1	50FB 50FC	4A B0 01	SCNJ03	LSR BCS	A SCNJ04
	91 FD		STA	(\$FD),Y	50FE	CA		DEX	3011304
	4C 9B 50		JMP	ĞMVÁLL	50FF	4A	SCNJ04	LSR	Α
		e direction.			5100	BO 01		BCS	SCNJ05
	A9 01	GDNHIT	LDA	#1	5102	E8	SCNJ05	INX	٨
	91 FB CO 07	GMVALL	STA CPY	(\$FB),Y #7	5103 5104	4A 8E 66 03	SUMJUS	LSR STX	A \$0366
	FO 04	CIN WILL	BEQ	GMVOUT	5107	2A 00 00		ROL	A
509F	C8		INY		5108	29 01		AND	#1
	4C 7B 50		JMP	GUDCHK	510A	8D 68 03		STA	\$0368
	60 s movina i	GMVOUT p. check if it	RTS		510D 5110	00 00 00 A0 00		LDA LDY	J0Y2 #0
	screen sp				5112	A2 00		LDX	#0
	B1 FD	GMVUP	LDA	(\$FD),Y	5114	4A		LSR	A
	38		SEC		5115	BO 01		BCS	SCNJ06 .
	E9 06		SBC	#6 MYRAS2	5117 5118	88 4A	SCNJ06	DEY LSR	A
	00 00 00 90 0A		CMP BCC	GUPHIT	5119	BO 01	3011300	BCS	A SCNJ07
		ubtract one fror		COLLIN	511B	C8		INY	CONTO
; vertical	position f	or this gator.			511C	4A	SCNJ07	LSR	Α
	B1 FD		LDA	(\$FD),Y	511D	BO 01		BCS	SCNJ08
	38 E9 01		SEC SBC	#1	511F 5120	CA 4A	SCNJ08	DEX LSR	Α
	91 FD		STA	(\$FD),Y	5120	BO 01	SUNJUO	BCS	SCNJ09
	4C 9B 50		JMP	GMVALL	5123	E8		INX	-011000
; hit scre	en border.	make sound et	ffect.		5124	4A	SCNJ09	LSR	A
	20 D7 50		JSR	GBRDSND	5125	8E 69 03		STX	\$0369
	airection (flag. 255=dow	n. LDA	#\$FF	5128 5129	2A 29 01		rol and	A #1
	91 FB		STA	#ФГГ (\$FB),Y	5128	8D 6B 03		STA	\$036B
	4C 9B 50		JMP	ĞMVÁLL	512E	AD 68 03		LDA	\$0368
:					5131	C9 00		CMP	#0
;	of agala hi	tting border			5133 5135	D0 11 AD 67 03		BNE LDA	SCNJOA \$0367
, sound	or cayle III	turiy boluti			0100	אט זו עא		LUM	φυσυ/

The Source Code

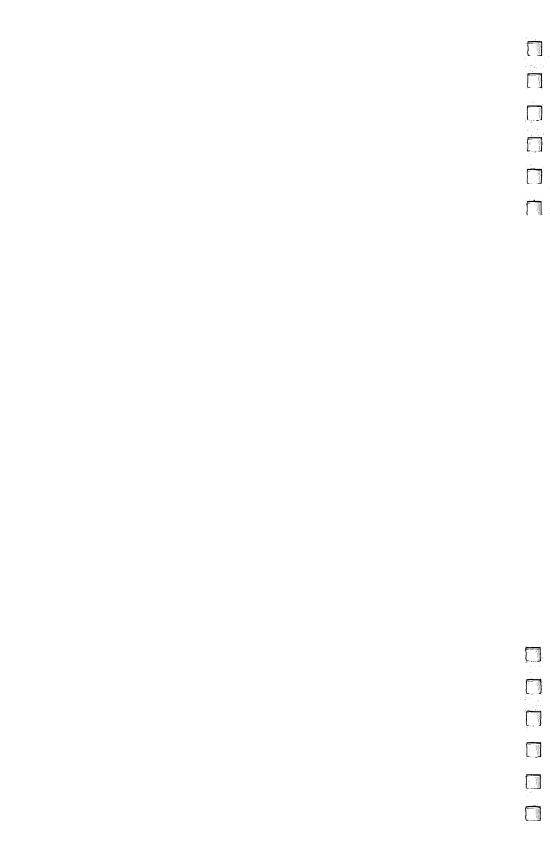
5138	C9 00	CMP	#0	; pushing border on each side.
513A	DO 12	BNE	SCNJOB	; move border up or down accordingly,
513C	AD AB 03	LDA	\$03AB	; along with all clamped creatures.
513F	C9 FF	CMP	#\$FF	; check if either side has won.
5141	FO OB	BEQ	SCNJOB	· · · · · · · · · · · · · · · · · · ·
5143	EE AB 03	INC	\$03AB	51E7 HUZAHED = *
5146	A9 01 SCNJOA	LDA	#1	51E7 A9 82 LDA #\$82
5148	8D 67 03	STA	\$0367	51E9 85 FB STA \$FB
514B	4C 5C 51	JMP	SCNJOC	51EB A9 03 LDA #3
514E	20 9B 4C SCNJOB			
	A9 00	JSR	SOUND4	51ED 85 FC STA \$FC
5151		LDA	#0	51EF A9 00 LDA #0
5153	8D AB 03	STA	\$03AB	51F1 8D 9A 03 STA \$039A
5156	AD 68 03	LDA	\$0368	51F4 A0 00 LDY #0
5159	8D 67 03	STA	\$0367	51F6 B1 FB ECONT LDA (\$FB),Y
515C	AD 6B 03 SCNJOC	LDA	\$036B	51F8 C9 00 CMP #0
515F	C9 00	CMP	#0	51FA DO 03 BNE ECONTALL
5161	D0 11	BNE	SCNJOD	51FC EE 9A 03 INC \$039A
5163	AD 6A 03	LDA	\$036A	51FF CO 07 ECONTALL CPY #7
5166	C9 00	CMP	#0	5201 FO 04 BEQ GCONT
5168	D0 12	BNE	SCNJOE	5203 C8 INY
516A	AD AC 03	LDA	\$03AC	5204 4C F6 51 JMP ECONT
516D	C9 FF	CMP	#\$FF	5207 A9 8A GCONT LDA #\$8A
516F	FO OB	BEQ	SČNJOE	5209 85 FB STA \$FB
5171	EE AC 03	INC	\$03AC	520B A9 03 LDA #3
5174	A9 01 SCNJOD	LDA	#1	520D 85 FC STA \$FC
5176	8D 6A 03	STA	\$036A	
5179				
	4C 8A 51	JMP	SCNJOF	5211 8D 9B 03 STA \$039B
517C	20 8B 4C SCNJOE	JSR	SOUND3	5214 A0 00 LDY #0
517F	A9 00	LDA	#0	5216 B1 FB GCONT1 LDA (\$FB),Y
5181	8D AC 03	STA	\$03AC	5218 C9 00 CMP #0
5184	AD 6B 03	LDA	\$036B	521A DO 03 BNE GCONTALL
5187	8D 6A 03	STA	\$036A	521C EE 9B 03 INC \$039B
518A	AD 66 03 SCNJOF	LDA	\$0366	521F CO 07 GCONTALL CPY #7
518D	C9 00	CMP	#0	5221 FO 04 BEQ HUMORE
518F	F0 11	BEQ	SCNJ10	5223 C8 INY
5191	AD 65 03	LDA	\$0365	5224 4C 16 52 JMP GCONT1
5194	C9 00	CMP	#0	:
5196	F0 12	BEQ	SCNJ11	; compare number of creatures
5198	AD AD 03	LDA	\$03AD	; pushing on both sides.
519B	C9 01	CMP	#1	, pasting of boar state.
519D	FO OB	BEQ	SCNJ11	5227 AD 9B 03 HUMORE LDA \$039B
519F	EE AD 03	INC	\$03AD	522A CD 9A 03 CMP \$039A
51A2	A9 00 SCNJ10	LDA	#0	
51A4	8D 65 03			
		STA	\$0365 CON 140	; if sides are equal, don't move border.
51A7	4C B8 51	JMP	SCNJ12	522F FO 6A BEQ HUZDUN
51AA	20 72 4C SCNJ11	JSR	SOUND2	
51AD	A9 00	LDA	#0	; gators are pushing border upward.
51AF	8D AD 03	STA	\$03AD	; check if they've won yet.
51B2	AD 66 03	LDA	\$0366	;
51B5	8D 65 03	STA	\$0365	5231 GWINCHK = *
51B8	AD 69 03 SCNJ12	LDA	\$0369	5231 00 00 00 LDA MYRAS2
51BB	C9 00	CMP	#0	5234 C9 3E CMP #\$3E
51BD	F0 11	BEQ	SCNJ13	5236 D0 03 BNE UPSPLIT
51BF	AD 64 03	LDA	\$0364	5238 4C 8B 53 JMP GATWON
51C2	C9 00	CMP	#0	; haven't won, move border up a line.
51C4	FO 12	BEQ	SCNJ14	523B 38 UPSPLIT SEC
51C6	AD AE 03	LDA	\$03AE	523C E9 01 SBC #1
51C9	C9 01	CMP	#1	523E 00 00 00 STA MYRAS2
51CB	FO 0B	BEQ	SCNJ14	; move clamped eagles upward
51CD	EE AE 03	INC	\$03AE	; along with border.
51D0			#0 #0	5241 A9 82 LDA #\$82
51D0 51D2	A9 00 SCNJ13 8D 64 03	LDA		
		STA	\$0364 CON 145	
51D5	4C E6 51	JMP	SCNJ15	5245 A9 03 LDA #3
51D8	20 4E 4C SCNJ14	JSR	SOUND1	5247 85 FC STA \$FC
51DB	A9 00	LDA	#0	5249 A0 00 LDY #0
51DD	8D AE 03	STA	\$03AE	524B B1 FB UPEGL LDA (\$FB),Y
51E0	AD 69 03	LDA	\$0369	524D C9 00 CMP #0
51E3	8D 64 03	STA	\$0364	524F DO 15 BNE UPEGALL
51E6	60 SCNJ15	RTS .		5251 A5 FB LDA \$FB
;				5253 38 SEC
;				5254 E9 10 SBC #\$10
; check	how many creatures are			5256 85 FB STA \$FB
	•			·

Chapter 3

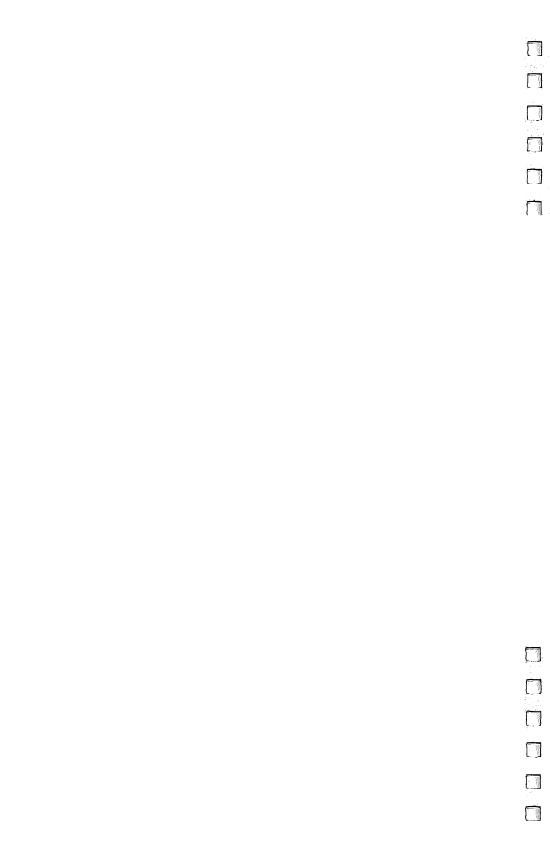
5258	B1 FB		LDA	(\$FB),Y	52CA	A5 FB		LDA	\$FB
525A	38		SEC	(4. –),	52CC	18		CLC	* ·· -
525B	E9 01		SBC	#1	52CD	69 10		ADC	#\$10
525D	91 FB		STA	(\$FB),Y	52CF	85 FB		STA	\$FB
525F	A5 FB		LDA	\$FB	52D1	CO 07	DNEAG1	CPY	#7
5261	18		CLC	#440	52D3	F0 04		BEQ	DNGAT
5262	69 10		ADC	#\$10	52D5	C8		INY	DNEAC
5264 5266	85 FB CO 07	UPEGALL	STA CPY	\$FB #7	52D6	4C B6 52	tore downward	JMP	DNEAG
5268	FO 04	UPEGALL	BEQ	UPGAT	, alono	with the bo	ators downward		
526A	C8		INY	oi ani	52D9	A9 8A	DNGAT	LDA	#\$8A
526B	4C 4B 52		JMP	UPEGL	52DB	85 FB	D.1.0.1.	STA	\$FB
		ators upward	····.		52DD	A9 03		LDA	#3
; along	with border	r .			52DF	85 FC		STA	\$FC
526E	A9 8A	UPGAT	LDA	#\$8A	52E1	A0 00		LDY	#0
5270	85 FB		STA	\$FB	52E3	B1 FB	DNGAT1	LDA	(\$FB),Y
5272	A9 03		LDA	#3	52E5	C9 00		CMP	#0
5274 5276	85 FC A0 00		STA LDY	\$FC #0	52E7 52E9	D0 15 A5 FB		BNE LDA	DNGATALL \$FB
5278	B1 FB	UPGAT1	LDA	(\$FB).Y	52EB	38		SEC	фго
527A	C9 00	Urdali	CMP	#0	52EC	E9 10		SBC	#\$10
527C	DO 15		BNE	ÜPGTALL	52EE	85 FB		STA	\$FB
527E	A5 FB		LDA	\$FB	52F0	B1 FB		LDA	(\$FB),Y
5280	38		SEC	• -	52F2	18		CLC	· · · /·
5281	E9 10		SBC	#\$10	52F3	69 01		ADC	#1
5283	85 FB		STA	\$FB	52F5	91 FB		STA	(\$FB),Y
5285	B1 FB		LDA	(\$FB),Y	52F7	A5 FB		LDA	\$FB
5287	38		SEC		52F9	18		CLC	
5288	E9 01		SBC	#1	52FA	69 10		ADC	#\$10
528A	91 FB		STA	(\$FB),Y	52FC	85 FB	DNICATALL	STA	\$FB #7
528C 528E	A5 FB 18		LDA CLC	\$FB	52FE 5300	CO 07 FO 04	DNGATALL	CPY BEQ	# / XDNSPL
528F	69 10		ADC	#\$10	5302	C8		INY	ADNOFL
5291	85 FB		STA	\$FB	5303	4C E3 52		JMP	DNGAT1
5293	CO 07	UPGTALL	CPY	#7	5306	60	XDNSPL	RTS	Ditaili
	FO 04	0. 0				••			
5295	TU U4		BEU	HUZDUN	•				
5295 5297	C8		BEQ INY	HUZDUN	<u>;</u>				
				UPGAT1			clear screen,		
5297	C8	HUZDUN	INY		; make	expanded e	agle move dow	n	
5297 5298	C8 4C 78 52	HUZDUN	INY JMP		; make	expanded e		n	
5297 5298 529B ;	C8 4C 78 52 60		INY JMP		; make ; the s	expanded e	eagle move dow ound effects.		•
5297 5298 529B ; ; ; eagles	C8 4C 78 52 60 are pushir	ng the border	INY JMP		; make ; the s	expanded e creen, do so	agle move dow	=	*
5297 5298 529B ; ; ; eagles	C8 4C 78 52 60 are pushir		INY JMP		; make ; the se ; 5307 5307	expanded excreen, do so	eagle move dow ound effects.	 LDA	* #\$60 \$D40C
5297 5298 5298 ; ; ; eagles ; down.	C8 4C 78 52 60 are pushir	ng the border	INY JMP		; make ; the si ; 5307 5307 5309	expanded expeen, do so A9 60 8D 0C D4	eagle move dow ound effects.	= LDA STA	\$D40C
5297 5298 529B ; ; ; eagles ; down. ; 529C	C8 4C 78 52 60 are pushir see if they	ng the border	INY JMP		; make ; the se ; 5307 5307	expanded excreen, do so	eagle move dow ound effects.	 LDA	
5297 5298 5298 ; ; ; eagles ; down.	C8 4C 78 52 60 are pushir	ng the border	INY JMP RTS	UPGAT1	; make ; the se; 5307 5307 5309 530C 530F 5311	expanded exceen, do so A9 60 8D 0C D4 8D 05 D4	eagle move dow ound effects.	LDA STA STA LDA STA	\$D40C \$D405
5297 5298 529B ; ; eagles ; down. ; 529C 529C 529F 52A1	C8 4C 78 52 60 are pushir see if they 00 00 00 C9 E8 D0 03	ng the border 've won yet. EWINCHK	INY JMP RTS	upgat1 . Myras2 #\$E8 DNSPLIT	; make ; the se; 5307 5307 5309 530C 530F 5311 5314	A9 60 8D 0C D4 8D 05 D4 A9 00 8D 5C 03 A9 20	eagle move dow ound effects.	LDA STA STA LDA STA LDA	\$D40C \$D405 #0 \$035C #\$20
5297 5298 5298 ; ; eagles ; down. ; 529C 529C 529F 52A1 52A3	C8 4C 78 52 60 s are pushir see if they 00 00 00 00 C9 E8 D0 03 4C 07 53	ng the border 've won yet. EWINCHK	JMP RTS	upgat1 . myras2 #\$E8	5307 5307 5307 5309 530C 530F 5311 5314 5316	expanded e creen, do so A9 60 8D 0C D4 8D 05 D4 A9 00 8D 5C 03 A9 20 8D 75 03	eagle move dow ound effects.	LDA STA STA LDA STA LDA STA	\$D40C \$D405 #0 \$035C #\$20 \$0375
5297 5298 529B ; ; ; eagles; down.; 529C 529C 529F 52A1 52A3 ; eagles;	C8 4C 78 52 60 s are pushir see if they 00 00 00 00 C9 E8 D0 03 4C 07 53 haven't w	ng the border 've won yet. EWINCHK on yet. move	INY JMP RTS	upgat1 . Myras2 #\$E8 DNSPLIT	5307 5307 5309 530C 530F 5311 5314 5316 5319	expanded e creen, do so A9 60 8D 0C D4 8D 05 D4 A9 00 8D 5C 03 A9 20 8D 75 03 A9 FF	eagle move dow ound effects.	LDA STA STA LDA STA LDA STA LDA	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF
5297 5298 5298 ; ; eagles; down.; 529C 529C 529F 52A3 ; eagles; the bu	C8 4C 78 52 60 s are pushir see if they 00 00 00 00 C9 E8 D0 03 4C 07 53 s haven't worder down	ng the border ve won yet. EWINCHK on yet. move one line.	INY JMP RTS	upgat1 . Myras2 #\$E8 DNSPLIT	; make ; the s ; 5307 5307 5309 530C 530F 5311 5314 5316 5319 531B	expanded ecreen, do so A9 60 8D 0C D4 8D 05 D4 A9 00 8D 5C 03 A9 20 8D 75 03 A9 FF 8D 85 03	eagle move dow ound effects.	LDA STA STA LDA STA LDA STA LDA STA	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF \$0385
5297 5298 5298 ; eagles; down.; 529C 529C 529F 52A1 ; eagles; the bo	C8 4C 78 52 60 s are pushir see if they 00 00 00 00 C9 E8 D0 03 4C 07 53 s haven't worder down 18	ng the border 've won yet. EWINCHK on yet. move	INY JMP RTS	• MYRAS2 #\$E8 DNSPLIT EGLWON	; make ; the si ; 5307 5307 5309 530C 530F 5311 5314 5316 5319 531B 531E	expanded exceen, do so A9 60 8D 0C D4 8D 05 D4 A9 00 8D 5C 03 A9 20 8D 75 03 A9 FF 8D 85 03 A9 FA	eagle move dow ound effects.	LDA STA STA LDA STA LDA STA LDA STA LDA	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF \$0385 #\$FA
5297 5298 529B ; ; eagles ; down. ; 529C 529C 529F 52A1 52A3 ; eagles ; the bi 52A6 52A6	C8 4C 78 52 60 are pushir see if they 00 00 00 00 C9 E8 D0 03 4C 07 53 haven't worder down 18 69 01	ng the border ve won yet. EWINCHK on yet. move one line.	INY JMP RTS	• MYRAS2 #\$E8 DNSPLIT EGLWON #1	5307 5307 5307 5309 530C 530F 5311 5314 5316 5319 531B 531E 5320	A9 60 8D 0C D4 8D 05 D4 A9 00 8D 5C 03 A9 20 8D 75 03 A9 FF 8D 85 03 A9 FF 8D 85 03 A9 FA 8D 85 03 A9 FO 8D 90 00 00 00	eagle move dow ound effects.	LDA STA STA LDA STA LDA STA LDA STA LDA STA	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF \$0385 #\$FA MYRAS2
5297 5298 5298 5298; cagles; down.; 529C 529C 529F 52A3; eagles; the bo 52A6 52A7 52A9	C8 4C 78 52 60 s are pushir see if they 00 00 00 00 C9 E8 D0 03 4C 07 53 s haven't worder down 18 69 01 00 00 00 00	ng the border Yve won yet. EWINCHK on yet. move one line. DNSPLIT	INY JMP RTS	• MYRAS2 #\$E8 DNSPLIT EGLWON	; make ; the si ; 5307 5307 5309 530C 530F 5311 5316 5319 5318 531E 5320 5323	A9 60 8D 0C D4 8D 0C D4 8D 05 D4 A9 00 8D 5C 03 A9 20 8D 75 03 A9 FF 8D 85 03 A9 FA 00 00	eagle move dow ound effects.	LDA STA STA LDA STA LDA STA LDA STA LDA STA LDA	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF \$0385 #\$FA MYRAS2 #8
5297 5298 5298 5298 ; — eagles; down. ; 529C 529C 529F 52A3 ; eagles; the bo 52A6 52A6 52A9 ; move	C8 4C 78 52 60 s are pushir see if they 00 00 00 00 C9 E8 D0 03 4C 07 53 & haven't worder down 18 69 01 00 00 00 clamped e:	ng the border 've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS	• MYRAS2 #\$E8 DNSPLIT EGLWON #1	; make ; the si ; 5307 5307 5309 530C 5311 5314 5316 5319 531B 531B 5320 5323 5323	expanded expeen, do so	eagle move dow ound effects.	LDA STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF \$0385 #\$FA MYRAS2 #8 ENABLE
5297 5298 5298 5298 ; — eagles; down. ; 529C 529C 529F 52A3 ; eagles; the bo 52A6 52A6 52A9 ; move	C8 4C 78 52 60 see if they compared they com	ng the border 've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS	• MYRAS2 #\$E8 DNSPLIT EGLWON #11 MYRAS2	; make ; the si ; 5307 5307 5309 530C 530F 5311 5314 5316 5319 531B 531B 5320 5323 5323 5325 5328	expanded expeen, do so	eagle move dow ound effects.	LDA STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF \$0385 #\$FA MYRAS2 #8 ENABLE #8
5297 5298 5298 5298 5296 529C 529F 52A1 52A3 6 eagles 52A6 52A6 52A6 52A9 7 move 3 along 52AC	C8 4C 78 52 60 s are pushir see if they 00 00 00 00 C9 E8 00 03 4C 07 53 haven't worder down 18 69 01 00 00 00 00 00 00 clamped e with borde A9 82 85 FB	ng the border 've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS	• MYRAS2 #\$E8 DNSPLIT EGLWON #1	make the s 5307 5307 5309 530C 530F 5311 5314 5316 5319 5318 5320 5323 5323 5325 5324 532D	expanded expeen, do so	eagle move dow ound effects.	LDA STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA	\$D40C \$D405 #0 \$035C #\$20 \$0375 \$\$FF \$0385 #\$FA MYRAS2 #8 ENABLE #8 ENABLE #8 YEXPAN
5297 5298 5298 ; eagles ; down. 529C 529C 529F 52A3 ; eagles ; the b 52A7 52A9 ; move ; along 52AC 52AC 52BO	C8 4C 78 52 60 s are pushir see if they 00 00 00 C9 E8 D0 03 At C07 53 haven't worder down 18 69 01 00 00 00 ewith borde A9 82 A9 03	ng the border 've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS LDA CMP BNE JMP CLC ADC STA LDA	• MYRAS2 #\$E8 DNSPLIT EGLWON #1 MYRAS2 #\$82 \$FB #3	make; the second state of	expanded expeen, do sc A9 60 BD 0C D4 BD 05 D4 A9 00 BD 75 03 A9 20 BD 75 03 A9 FF 8D 85 03 A9 FR 00 00 00 00 A9 08 00 00 00 00 00 00 00 00 00 00 00 00	eagle move dow ound effects.	LDA STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF \$0385 #\$FA MYRAS2 #8 ENABLE #8 XEXPAN YEXPAN #\$SC
5297 5298 5298 5298 60wn.; 529C 529F 52A1 52A3 62A7 52A9 752A9 70wo 52AC 52AE 52B2	C8 4C 78 52 60 s are pushir see if they 00 00 00 00 C9 E8 D0 03 s haven't worder down 18 00 00 00 00 clamped e: with borde A9 82 85 FB A9 03 85 FC	ng the border 've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS LDA CMP BNE JMP CLC ADC STA LDA STA	. MYRAS2 #\$E8 DNSPLIT EGLWON #1 MYRAS2 #\$82 \$FB #3 \$FC	; make ; the s ; 5307 5307 5309 530C 5311 5314 5318 5318 5318 5323 5323 5325 5328 532A 5320 5330 5330 5330 5330	expanded expen, do sc A9 60 BD 0C D4 8D 0C D4 8D 05 D4 A9 00 BD 75 03 A9 20 BD 75 03 A9 75 BD 85 03 A9 76 BD 85 03 A9 77 BD 85 03 A9 78 BD 85 03 A9	agle move dow	LDA STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF \$0385 #\$FA MYRAS2 #8 ENABLE #8 XEXPAN YEXPAN YEXPAN YEXPAN \$\$5C \$03AF
5297 5298 5298 6 down. 529C 529C 529F 52A1 52A3 6 eagles 52A6 52A7 6 move along 52AC 52B0 52B0 52B0 52B4	C8 4C 78 52 60 s are pushir see if they 00 00 00 00 C9 E8 00 00 4C 07 53 haven't worder down 18 69 01 00 00 00 00 00 00 00 clamped e with borde A9 82 85 FB A9 03 85 FB A9 03 86 A0 00	ng the border r've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS = LDA CMP BNE JMP CLC STA LDA STA LDA STA LDA STA LDA STA LDA	• MYRAS2 #\$E8 DISPLIT EGLWON #1 MYRAS2 #\$B2 \$FB #3 \$FC #0	make the si 5307 5307 5309 530C 5311 5314 5316 5319 5318 5320 5323 5325 5328 532A 532D 5332 5332 5332 5332 5335	expanded expeen, do sc A9 60 8D 0C D4 8D 05 D4 A9 00 8D 75 03 A9 50 8D 75 03 A9 FA 00 00 00 00 00 00 A9 08 00 00 00 00 00 00 A9 08 00	eagle move dow ound effects.	EDA STA LDA	\$D40C \$D405 #0 \$035C #\$20 \$0375 \$#\$FF \$0385 #\$FA MYRAS2 #8 ENABLE #8 XEXPAN YEXPAN YEXPAN #\$5C \$03AF #\$10
5297 5298 5298 298 200 529C 529C 529F 52A3 201 202 203 204 204 205 205 205 205 205 205 205 205 205 205	C8 4C 78 52 60 S are pushir see if they 00 00 00 C9 E8 00 03 4C 07 53 Aaven't worder down 18 69 01 00 00 00 clamped a with borde A9 82 85 FB 89 03 85 FC A0 01 B1 FB	ng the border 've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS = LDA CMP BNE JMP CLC ADC STA LDA STA LDA STA LDA STA LDA LDA LDA LDA LDA LDA LDA LDA LDA LD	• MYRAS2 #\$EB DNSPLIT EGLWON #1 MYRAS2 #\$FB #3 \$FC #0 (\$FB),Y	make the s 5307 5307 5307 5305 5311 5314 5316 5319 5318 5312 5323 5325 5328 5328 5320 5330 5332 5333 5335 5337	expanded expeen, do so	agle move dow	LDA STA STA LDA STA STA STA STA STA STA STA STA STA ST	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF \$0385 #\$FA MYRAS2 #8 ENABLE #8 XEXPAN YEXPAN #\$5C \$03AF #\$10 \$0404
5297 5298 5298 60wn. 529C 529C 529C 529C 5241 52A3 62A7 52A6 52A6 52A7 52A9 75	C8 4C 78 52 60 s are pushir see if they 00 00 00 C9 E8 D0 03 s haven't worder down 18 69 01 00 00 00 clamped e A9 82 85 FB A9 03 85 FC A0 00 B1 FB C9 00	ng the border r've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS = LDA CMP BNE JMP CLC CADC STA LDA STA LDA STA LDA CMP LDA LDA CMP LDA LDA CMP LDA LDA LDA LDA LDA LDA LDA LDA LDA LDA	WYRAS2 #\$E8 DNSPLIT EGLWON #1 MYRAS2 #\$82 \$FB #3 \$FC #0 (\$FB),Y #0	make the s 5307 5307 5307 5307 5307 5307 5316 5316 5318 5318 5320 5323 5325 5328 532A 5320 5330 5332 5335 5335 5337 5337	expanded expen, do sc A9 60 BD 0C D4 8D 0C D4 8D 05 D4 A9 00 BD 75 03 A9 20 BD 75 03 A9 75 BD 85 03 A9	agle move down und effects. EGLWON	LDA STA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA STA	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF \$0385 #\$FA MYRAS2 #8 ENABLE #8 XEXPAN YEXPAN YEXPAN #\$5C \$03AF #\$10 \$03AF #\$10 \$4004
5297 5298 5298 ; eagles; down. 529C 529C 529F 52A3 ; eagles; the bo 52A6 52A9 ; move ; along 52AC 52B0 52B0 52B4 52B4 52B6 52B8 52B8	C8 4C 78 52 60 s are pushir see if they 00 00 00 00 C9 E8 00 03 4C 07 53 haven't worder down 18 69 01 00 00 00 00 00 00 00 clamped e with borde A9 82 85 FB A9 03 85 FB A9 03 85 FB C9 00 B1 FB C9 00 00 15	ng the border r've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS = LDA CMP BNE JMP CLC CADC STA LDA STA LDA STA LDA CMP BNE JMP	. MYRAS2 #\$E8 DNSPLIT EGLWON #1 MYRAS2 #\$B2 \$FB #3 \$FC #0 (\$FB),Y #0 DNEAG1	; make ; the s ; the s ; the s ; 5307 5307 5308 5311 5318 5318 5319 5318 5319 5318 5320 5323 5323 5323 5323 5323 5323 5323	expanded expeen, do sc reen, d	agle move down und effects. EGLWON	LDA STA STA LDA STA STA LDA STA STA STA STA STA STA STA STA STA ST	\$D40C \$D405 #0 \$035C #\$20 \$0355 #\$FF \$0385 #\$FA MYRAS2 #8 ENABLE #8 XEXPAN YEXPAN YEXPAN #\$5C \$03AF #\$10 \$D404 #\$15 \$D404
5297 5298 5298 60wn. 529C 529C 529F 52A1 52A3 eagles; the bt 52A6 52A6 52A7 52AC 52B0 52B0 52B4 52B6 52B8 52B8 52B8 52B8	C8 4C 78 52 60 S are pushir see if they 00 00 00 C9 E8 00 00 00 E8 00 00 01 18 69 01 00 00 00 clamped e with borde A9 82 85 FB A9 03 85 FC A9 13 85 FC A9 85 FC A9 85 FC A5 FC A5 FC A5 FC A5 FC A5 FC A5 FB A5 FB	ng the border r've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS	WYRAS2 #\$E8 DNSPLIT EGLWON #1 MYRAS2 #\$82 \$FB #3 \$FC #0 (\$FB),Y #0	; make ; the s ; the s ; 5307 5307 5308 5309 5316 5319 5318 5323 5325 5328 5320 5323 5323 5324 5323 5325 5323 5323 5332 5332	expanded expeen, do so	egle move down und effects. EGLWON	LDA STA STA LDA STA STA LDA STA STA LDA STA STA LDA STA STA LDA STA STA LDA STA STA LDA STA STA STA STA STA STA STA STA STA ST	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF \$0385 #\$FA MYRAS2 #8 ENABLE #8 XEXPAN YEXPAN YEXPAN #\$5C \$03AF #\$10 \$0404 #\$15 \$0404 \$0430
5297 5298 5298 60wn. 529C 529C 529C 529C 529C 52A1 52A3 652A7 52A6 52A6 52A7 52A8 52B2 52B4 52B4 52B4 52B8 52BA 52BC	C8 4C 78 52 60 are pushir see if they 00 00 00 00 C9 E8 D0 03 4C 07 53 haven't worder down 18 69 01 00 00 00 clamped ex with borde A9 82 85 FB A9 50 A0 00 B1 FB A5 FB A5 FB A3 58 A5 FB	ng the border r've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS = LDA CMP BNE JMP CLC ADC STA LDA STA LDA STA LDA CMP BNE LDA CMP BNE LDS CMP BNE LDS CMP	• MYRAS2 #\$E8 DNSPLIT EGLWON #1 MYRAS2 #\$82 \$FB #3 \$FC #0 (\$FB),Y #0 DNEAG1 \$FB	; make ; the s ; the s ; the s ; 5307 5307 5309 5300 5301 5314 5318 5318 5318 5320 5323 5323 5325 5320 5323 5323 5323	expanded expen, do sc reen, do	egle move down und effects. EGLWON	ELDA STA LDA S	\$D40C \$D405 #0 \$035C #\$25 \$0375 \$375 \$375 \$385 #\$FF \$0385 #8 ENABLE #8 XEXPAN YEXPAN YEXPAN #\$5C \$03AF #\$15 \$D404 \$033D \$030D \$030D \$030D
5297 5298 5298 60wn. 529C 529C 529F 52A1 52A3 eagles; the bt 52A6 52A6 52A7 52AC 52B0 52B0 52B4 52B6 52B8 52B8 52B8 52B8	C8 4C 78 52 60 S are pushir see if they S are pushir see if they O0 00 00 C9 E8 O0 00 O0 E8 O0 00 O1 O0 00 O0 00 O0 00 O0 00 O0 00 O0 00 00 0 O0 00 00 0 O0 00 00 0 O0 00 0	ng the border r've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS	. MYRAS2 #\$E8 DNSPLIT EGLWON #1 MYRAS2 #\$B2 \$FB #3 \$FC #0 (\$FB),Y #0 DNEAG1	; make ; the s ; the s ; 5307 5307 5308 5309 5316 5319 5318 5323 5325 5328 5320 5323 5323 5324 5323 5325 5323 5323 5332 5332	expanded expeen, do so	egle move down und effects. EGLWON	LDA STA LDA ST	\$D40C \$D405 #0 \$035C #\$20 \$0375 \$#\$FF \$0385 #\$FA MYRAS2 #8 ENABLE #8 XEXPAN YEXPAN #\$5C \$03AF #\$10 \$D404 \$033D \$D404 \$033D \$D407 \$0375
5297 5298 5298 ; eagles; down. 529C 529C 529F 52A3 ; eagles; the bo 52A6 52A9 ; move; along 52AC 52B0 52B0 52B4 52B4 52B6 52B8 52BA 52BC 52BC 52BF	C8 4C 78 52 60 3 are pushir see if they 00 00 00 00 C9 E8 00	ng the border r've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS = LDA CMP BME JMP CLC ADC STA LDA STA LDA STA LDA CMP LDA CMP LDA CMP LDA STA	. MYRAS2 #\$E8 DNSPLIT EGLWON #1 MYRAS2 #\$B8 #3 \$FB #3 \$FC #0 (\$FB),Y #0 DNEAG1 \$FB #\$10	; make ; the s ; the s ; 5307 5307 5308 5309 5301 5311 5311 5311 5312 5323 5325 5320 5320 5325 5320 5332 5332	expanded expended exp	egle move down und effects. EGLWON	ELDA STA LDA S	\$D40C \$D405 #0 \$035C #\$25 \$0375 \$375 \$375 \$385 #\$FF \$0385 #8 ENABLE #8 XEXPAN YEXPAN YEXPAN #\$5C \$03AF #\$15 \$D404 \$033D \$030D \$030D \$030D
5297 5298 5298 ; eagles; down. 529C 529C 529F 52A3 ; eagles; the bo 52A6 52A9 ; move; along 52AC 52B0 52B0 52B4 52B4 52B6 52B8 52BA 52BC 52BS 52BC 52BS 52BC 52BS 52BC 52BS 52BC 52BS 52BC 52BS 52BC 52BS 52BC 52BS 52BC 52BS 52BC 52BS 52BC 52BS 52BC 52BS 52BC 52BS 52BC 52BS 52BC 52BC 52BC 52BC 52BC 52BC 52BC 52BC	C8 4C 78 52 60 3 are pushir see if they 00 00 00 00 C9 E8 00	ng the border r've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS = LDA CMP BME JMP CLC ADC STA LDA STA LDA STA LDA STA LDA STA LDA STA LDA CMP LDA STA LDA CMP LDA	. MYRAS2 #\$E8 DNSPLIT EGLWON #1 MYRAS2 #\$1 MYRAS2 #\$82 \$FB #3 \$FC #0 (\$FB),Y #0 DNEAG1 \$FB #\$10 \$FB (\$FB),Y	; make ; the s ; the s ; 5307 5307 5308 5309 5309 5311 53116 5319 5318 5319 5323 5325 5323 5325 5320 5335 5336 5337 5336 5337 5337 5336 5342 5345 5348 5348	expanded expended exp	egle move down und effects. EGLWON	ELDA STA LDA STA LDA S	\$D40C \$D405 #0 \$035C #\$20 \$0375 #\$FF \$0385 #\$FA MYRAS2 #8 MYRAS2 #8 XEXPAN YEXPAN YEXPAN YEXPAN #\$5C \$03AF #\$10 \$D404 #\$15 \$D404 \$033D \$D405 \$D407 \$D406 \$D407 \$D4
5297 5298 5298 60wn. 529C 529C 529C 529C 529C 52A1 52A3 652A7 52A6 52A6 52A7 52A8 52B2 52B4 52B4 52B4 52B8 52BA 52BC 52BS 52BS 52BS 52BS 52BS 52BS 52BS 52BS	C8 4C 78 52 60 are pushir see if they 00 00 00 00 C9 E8 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 clamped e with borde A9 82 85 FB A9 00 D0 15 A5 FB 85 FB 85 FB	ng the border r've won yet. EWINCHK on yet. move one line. DNSPLIT agles downward	INY JMP RTS = LDA CMP BNE JMP CLC CADTA LDA STA LDA	* MYRAS2 #\$E8 DNSPLIT EGLWON #1 MYRAS2 #\$82 \$FB #3 \$FC (\$FB),Y #0 DNEAG1 \$FB #\$10 \$FB	; make ; the s ; the s ; the s ; 5307 5307 5309 5300 5314 5314 5318 5318 5318 5320 5323 5323 5325 5323 5323 5325 5323 5323 5324 5336 5336 5337 5337 5337 5337 5337 5337	expanded expen, do sc reen, do sc reen, do sc reen, do sc A9 60 BD 0C D4 BD 05 D4 A9 00 BD 75 03 A9 20 BD 75 03 A9 FA O0 00 00 00 00 00 00 00 00 00 00 00 00	egle move down und effects. EGLWON	ELDA STA LDA S	\$D40C \$D405 #0 \$035C #\$26 \$0375 #\$FF \$0385 #\$F8 MYRAS2 #8 ENABLE #8 XEXPAN YEXPAN YEXPAN #\$5C \$03AF #\$15 \$D404 #\$15 \$D404 \$0375 \$D401 \$0375 \$037

The Source Code

5356 20 5B 4D	JSR	DELAY	53F9	AD 3D 03	1 DA	# 000D
5359 AD AF 03	LDA	\$03AF	53FC	DO 06	LDA BNE	\$033D GATWON4
535C C9 01	CMP	#1	53FE	CE 3D 03	DEC	
535E FO 06	BEQ	EGLWIN2	5401	4C F4 53	JMP	\$033D Gatwon3
5360 CE AF 03	DEC	\$03AF	5404	A9 00 GATW	ON4 LDA	#0
5363 4C 35 53	JMP	EGLWN1	5406	00 00 00	STA	YEXPAN
5366 A9 00 EGLWIN2	LDA	#0	5400	00 00 00	STA	XEXPAN
5368 00 00 00	STA	FNARI F	. usm	e ended with nator	victory	VEVLUN
536B A9 FF	LDA	ENABLE #\$FF \$033D	, gark	e ended with gator skill level for next 00 00 00	victory. name	
536D 8D 3D 03	QTA.	\$033D	540C	OU UU UU IIOY	garrio. JMP	PIKSKL
5370 AO FF EGLWIN3	LDY	#\$FF		00 00 00	OWN	FINONL
5372 20 5B 4D	JSR	DELAY	:			
5375 AD 3D 03	LDA	\$033D	·			
5378 D0 06	BNE	ÉGLWIN4	: main	game loop		
537A CE 3D 03	DEC	\$033D				
537D 4C 70 53	JMP	EGLWIN3	:			
: sprites back to normal size			:			
5380 A9 00 EGLWIN4	LDA	#0	540F	MAIN	LOOP =	•
336Z UU UU UU	SIA	YEXPAN	540F	AC 3F 03	LDY	\$033F
5385 00 00 00	STA	XEXPAN	5412 5414 5417	A9 OA	LDA	#\$0A
; game ended with eagle victory.			5414	8D 3F 03 CE 3F 03 LOOP	STA	\$033F
; pick skill level for next game.			5417	CE 3F 03 LOOP	1 DEC	\$033F
5388 00 00 00	JMP	PIKSKL	541A	88	DEY	
;			541B	DO FA	BNE	L00P1
; -			541D	AD AO 03 LOOP:	2 LDA	\$03A0
; gators have won, make sound			5420	C9 3C	CMP	#\$3C
; while expanded gator moves fr	om		5422	FO 06	RFO	LOOP3
; bottom to top of screen.			5424	EE AO 03 4C 3B 54 20 EC 50 LOOPS	INC	\$03A0
;			5427	4C 3B 54	JMP	LOOP4
538B GATWON	=		542A	20 EC 50 LOOPS	3 JSR	SCNJOY
538B A9 15	LDA	#\$15	542D	20 C7 4D	JSR	EBORCHEK
538D 8D 13 D4 5390 8D 05 D4	STA	\$D413	5430	20 3D 4E	JSR	GBORCHEK
5390 8D 05 D4 5393 A9 0D	STA	\$D405	5433	20 B3 4E	JSR	FLASHIT
5395 A9 0D 5395 8D 4C 03	LDA	#\$0D	5436	A9 00	LDA	#0
	STA	\$034C	5438	8D A0 03	STA	\$03A0
5398 A9 E0 539A 8D 7D 03	LDA	#\$E0	543B	AD A1 03 LOOP4	t LDA	\$03A1
539D A9 01	sta LDA	\$037D	543E	C9 OF	CMP	#\$0F
539F 8D 8D 03	STA	#1 \$038D	5440 5442	F0 06	BEQ	LOOP5
53A2 A9 1C	LDA	#\$1C	5445	EE A1 03 4C 53 54	INC JMP	\$03A1
53A4 00 00 00	STA	MYRAS2	5448	20 10 50 LOOPS	JIVIP 5 JSR	LOOP6 EGLMOVE
53A7 A9 08	LDA	#8	544B	20 69 50	JSR JSR	GATMOVE
53A9 00 00 00	STA	ENABLE	544E	A9 00	LDA	#0
53AC A9 08	LDA	#Q	5450	8D A1 03	STA	\$03A1
53AE 00 00 00	STA	YEYPAN	5453	AD A2 03 LOOPE	S LDA	\$03A1 \$03A2
53B1 00 00 00	STA	XEXPAN YEXPAN #\$5C	5456	C9 1E	CMP	#\$1E
53B4 A9 5C	LDA	#\$5C	5458	F0 06	BEQ	L00P7
53B6 8D AF 03	STA	\$03AF	545A	EE A2 03	INC	\$03A2
53B9 A9 10 GATWON1	LDA	#\$10	545D	4C 6B 54	JMP	LOOP8
53BB 8D 12 D4	STA	\$D412	5460	20 75 4D LOOP?	7 JSR	GATWIGL
53BE A9 15	LDA	#\$15	5463	20 97 4D	JSR	EGLWIGL
53C0 8D 12 D4	STA	\$D412	5466	A9 00	LDA	#0
53C3 AD 3D 03	LDA	\$033D	5468	8D A2 03	STA	\$03A2
53C6 8D 01 D4	STA	\$D401	546B	AD A3 03 LOOP8	B LDA	\$03A3
53C9 AD 7D 03	LDA	\$037D	546E	C9 FF	CMP	#\$FF
53CC 8D 0F D4	STA	\$D40F	5470 5472 5475	F0 06	BEQ	LOOP9
53CF 20 75 4D	JSR	GATWIGL	5472	EE A3 03	INC	\$03A3
53D2 20 69 50	JSR	GATMOVE	5475	4C 80 54	JMP	L00P10
53D5 20 69 50	JSR	GATMOVE	5478	20 E7 51 LOOPS		HUZAHED
53D8 A0 40	LDY	#\$40	547B	A9 00	LDA	#0
53DA 20 5B 4D	JSR	DELAY	547D	8D A3 03 AE 3F 03 LOOP1	STA	\$03A3
53DD AD AF 03	LDA	\$03AF	5480	AE 3F 03 L00P1	0 LDX	\$033F
53E0 C9 01 53E2 F0 06	CMP	#1	5483	A0 18 LOOP1	1 LDY	#\$18
53E4 CE AF 03	BEQ	GATWON2		88 LOOP1		LOODIC
53E4 CE AF U3 53E7 4C B9 53	DEC JMP	\$03AF GATWON1	5486 5488	DO FD	BNE	L00P12
53EA A9 00 GATWON2	LDA	#0	5488 5489	CA DO F8	DEX	I 00014
53EC 00 00 00	STA	#U Enable	548B	4C 1D 54	BNE JMP	L00P11 L00P2
53EF A9 FF	LDA	#\$FF	J40B	TO 10 04	JIVIP	LUUFZ
53F1 8D 3D 03	STA	#\$FF \$033D				
53F4 AO FF GATWON3	LDY	#\$FF				
53F6 20 5B 4D	JSR	DELAY				
20.0 20 00 10	0011	J-L-11				



Appendices



How to Type In Programs

In order to make it as easy as possible to type in the programs in this book, we've included two program-entry aids written in BASIC: "The Automatic Proofreader" and "MLX." To assist you in understanding how to enter these programs, COMPUTE! has established the following listing conventions.

Generally, BASIC program listings like the one for MLX contain words within braces which spell out any special characters: {DOWN} means to press the cursor-down key; {5

SPACES} means to press the space bar five times.

To indicate that a key should be *shifted* (pressed while you're holding down the SHIFT key), the key is underlined in our listings. For example, S means to type the S key while holding down the SHIFT key. This will appear on your screen as a heart symbol. If you find an underlined key enclosed in braces—for example, {10 N}—you should type the key as many times as indicated. In that case, you would enter ten shifted N's. If a key is enclosed in special brackets, [<>], you should hold down the *Commodore key* while pressing the key inside the special brackets. (The Commodore key is the key in the lower left corner of the keyboard.) Again, if the key is preceded by a number, you should press the key as many times as indicated; for example, [<9@>] means to type Commodore-@ nine times.

Refer to the following table when entering cursor- and color-control keys:

Appendix A

Keyboard Conventions

When You Read:	Press:	See:	When You Read:	Press:	See:
{CLR}	SHIFT CLR/HOME	#	E 1 3	COMMODORE 1	
{HOME}	CLR/HOME	1:::	E 2 3	COMMODORE 2	
{UP}	SHIFT † CRSR		E 3	COMMODORE 3	
{DOWN}	† CRSR ↓	Ω	[4]	COMMODORE 4	
{LEFT}	$\boxed{SHIFT} \boxed{\longleftarrow CRSR \longrightarrow}$		E 5 3	COMMODORE 5	
{RIGHT}	← CRSR →		E 6 3	COMMODORE	
{RVS}	CTRL 9	E	E 7 3	COMMODORE 7	
{OFF}	CTRL 0		E 8 3	COMMODORE	
{BLK}	CTRL 1		{ F1 }	f1	
{WHT}	CTRL 2		{ F2 }	SHIFT f1	3
{RED}	CTRL 3		{ F3 }	f3	
{CYN}	CTRL 4		{ F4 }	SHIFT f3	
{PUR}	CTRL 5	***	{ F 5 }	f5	
{GRN}	CTRL 6		{ F6 }	SHIFT f5	
{BLU}	CTRL 7	•	{ F7 }	f 7	
{YEL}	CTRL 8		{ F8 }	SHIFT f7	
			4	•	1
			<u>†</u>	SHIFT	T

The Automatic Proofreader

Philip I. Nelson

"The Automatic Proofreader" helps you type in program listings for the Commodore 64 and 128, and prevents nearly every kind of typing mistake.

Type in the "Proofreader" exactly as listed. Since the program can't check itself, type carefully to avoid mistakes. Don't omit any lines, even if they contain unfamiliar commands. After you've finished, save a copy or two on disk or tape before running it. This is important because the Proofreader erases the BASIC portion of itself when you run it, leaving only the machine language portion in memory.

Next, type **RUN** and press RETURN. After announcing which computer it's running on, the Proofreader displays the message *Proofreader Active*. Now you're ready to type in a

BASIC program.

Two Letters

Every time you finish typing a line and press RETURN, the Proofreader displays a two-letter checksum in the upper left corner of the screen. Compare this result with the two-letter checksum printed to the left of the line in the program listing.

The one program in this book that can be used in conjunction with the Proofreader is "MLX: Machine Language Entry Program," which is found in Chapter 2. Make sure you use the Proofreader to type in MLX, since it is vital that you have the latter program entered correctly. If there is an error in MLX, you will not be able to type in any of the seven machine language games in this book.

If the letters match, it's almost certain the line was typed correctly. If the letters don't match, check for your mistake and correct the line.

What It Does, What It Doesn't

The Proofreader ignores spaces not enclosed in quotation marks, so you can omit or add spaces between keywords and still see a matching checksum. However, since spaces *inside* quotation marks are almost always significant, the Proofreader pays attention to them. For example, 10 PRINT"THIS IS BASIC" generates a different checksum than does 10 PRINT"THIS ISBA SIC".

A common typing error is transposition—typing two successive characters in the wrong order, like PIRNT instead of PRINT or 64378 instead of 64738. The Proofreader is sensitive to the *position* of each character within the line and thus catches transposition errors.

The Proofreader does *not* accept keyword abbreviations (for example, ? instead of PRINT). If you prefer to use abbreviations, you can still check the line by LISTing it after typing it in, moving the cursor back to the line, and pressing RETURN. LISTing the line substitutes the full keyword for the abbreviation and allows the Proofreader to work properly. The same technique works for rechecking programs you've already typed in.

If you're using the Proofreader on the Commodore 128, do not perform any GRAPHIC commands while the Proofreader is active. When you perform a command like GRAPHIC 1, the computer moves everything at the start of BASIC program space—including the Proofreader—to another memory area, causing the Proofreader to crash. The same thing happens if you run any program with a GRAPHIC command while the Proofreader is in memory.

Though the Proofreader doesn't interfere with other BASIC operations, it's a good idea to disable it before running another program. However, the Proofreader is purposely difficult to dislodge: It's not affected by tape or disk operations, or by pressing RUN/STOP-RESTORE. The simplest way to disable it is to turn the computer off, then on. A gentler method is to SYS to the computer's built-in reset routine (SYS 65341 for the 128; 64738 for the 64). These reset routines erase any program in memory, so be sure to save the program you're typing in *before* entering the SYS command.

If you own a Commodore 64, you may already have wondered whether the Proofreader works with other programming utilities like "MetaBASIC." The answer is, generally, yes, if you're using a 64 and activate the Proofreader after installing the

other utility. For example, first load and activate MetaBASIC; then load and run the Proofreader.

When using the Proofreader with another utility, you should disable *both* programs before running a BASIC program. While the Proofreader seems unaffected by most utilities, there's no way to promise that it will work with any and every combination of utilities you might want to use. The more utilities activated, the more fragile the system becomes.

The Automatic Proofreader

Read Appendix A before entering this program.

```
10 VEC=PEEK(772)+256*PEEK(7?73):LO=43:HI=44
```

- 2Ø PRINT"{CLR}{WHT}AUTOMATIC PROOFREADER FOR ";:IF
 VEC=42364 THEN PRINT "C-64"
- 30 IF VEC=50556 THEN PRINT "VIC-20{BLU}"
- 4Ø IF VEC=35158 THEN GRAPHIC CLR:PRINT "PLUS/4 & 1 6"
- 50 IF VEC=17165 THEN LO=45:HI=46:GRAPHIC CLR:PRINT "128{WHT}"
- 60 SA=(PEEK(LO)+256*PEEK(HI))+6:ADR=SA
- 7Ø FOR J=Ø TO 166:READ BYT:POKE ADR,BYT:ADR=ADR+1: CHK=CHK+BYT:NEXT
- 80 IF CHK<>20570 THEN PRINT "*ERROR* CHECK TYPING {SPACE}IN DATA STATEMENTS": END
- 9Ø FOR J=1 TO 5:READ RF, LF, HF:RS=SA+RF:HB=INT(RS/2 56):LB=RS-(256*HB)
- 100 CHK=CHK+RF+LF+HF:POKE SA+LF,LB:POKE SA+HF,HB:N
- 110 IF CHK<>22054 THEN PRINT "*ERROR* RELOAD PROGR AM AND CHECK FINAL LINE": END
- 120 POKE SA+149, PEEK(772): POKE SA+150, PEEK(773)
- 130 IF VEC=17165 THEN POKE SA+14,22:POKE SA+18,23: POKESA+29,224:POKESA+139,224
- 140 PRINT CHR\$(147); CHR\$(17); "PROOFREADER ACTIVE": SYS SA
- 150 POKE HI, PEEK(HI)+1:POKE (P?EEK(LO)+256*PEEK(HI))-1,0:NEW
- 160 DATA 120,169,73,141,4,3,169,3,141,5,3
- 170 DATA 88,96,165,20,133,167,165,21,133,168,169
- 180 DATA 0,141,0,255,162,31,181,199,157,227,3
- 190 DATA 202,16,248,169,19,32,210,255,169,18,32
- 200 DATA 210,255,160,0,132,180,132,176,136,230,180
- 210 DATA 200,185,0,2,240,46,201,34,208,8,72
- 220 DATA 165,176,73,255,133,176,104,72,201,32,208
- 230 DATA 7,165,176,208,3,104,208,226,104,166,180
- 24Ø DATA 24,165,167,121,0,2,133,167,165,168,105
- 25Ø DATA Ø,133,168,202,208,239,240,202,165,167,69
- 260 DATA 168,72,41,15,168,185,211,3,32,210,255

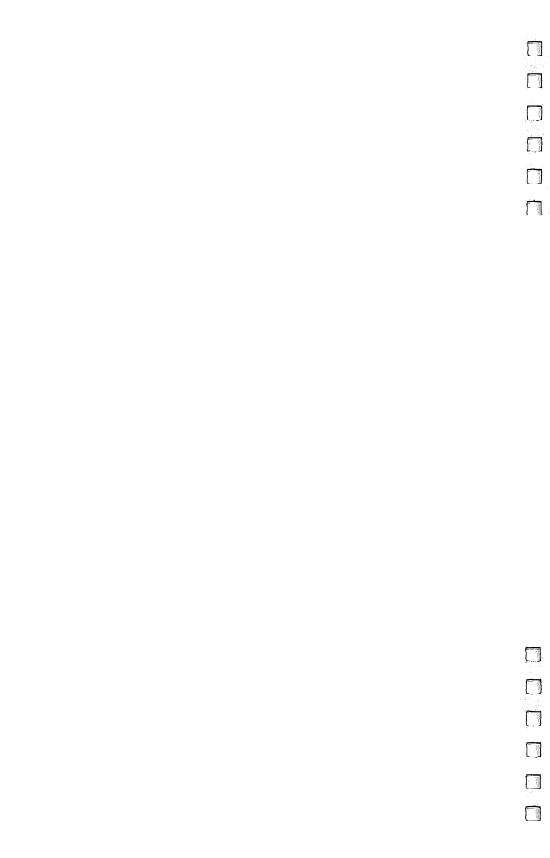
Appendix B

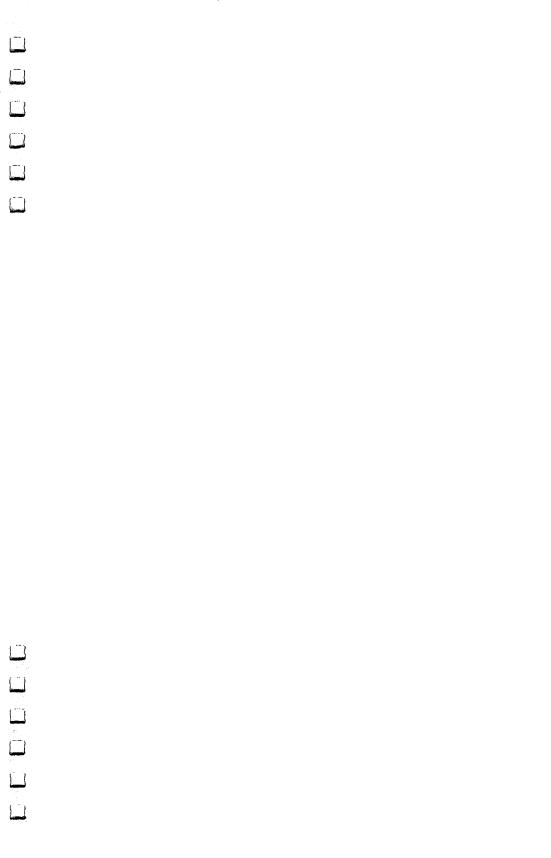
270 DATA 104,74,74,74,74,168,185,211,3,32,210
280 DATA 255,162,31,189,227,3,149,199,202,16,248
290 DATA 169,146,32,210,255,76,86,137,65,66,67
300 DATA 68,69,70,71,72,74,75,77,80,81,82,83,88
310 DATA 13,2,7,167,31,32,151,116,117,151,128,129,
167,136,137

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